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Speed & Passion TS-16949 ISO 14001

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DETECTOR

SWITCH

SWITCH



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DIPTRONICS MANUFACTURING INC. A Worldwide Leading Switch Manufacturer



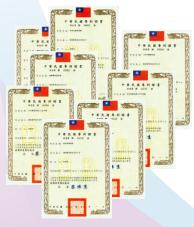








專利證書⁽中國) Patent Certificate(China)



專利證書(台灣) Patent Certificate(Taiwan)

塑造學習、挑戰和分享的環境,不斷成長, 成為全球最佳電子零組件廠之一

To build a learning, challenging, and sharing environment to be one of the best component manufacturers in the world.



圜達實業股份有限公司於1985年在台灣創立,專業研發製造各類程式開 關、觸動開關、旋轉開關、微動開關、滑動開關、複合功能開關及LED開關 等多項產品,並取得TS 16949 及 ISO-14001認證,產品行銷海內外超過 50 餘國。

33年來,經由不斷地垂直整合,圜達逐步發展出強而有力的核心競爭優勢。從原物料購入到完成品供應給客戸,所有生產製程(包含產品研發、電 鍍、LED封裝、模具及設備加工、金屬沖壓、塑膠射出、自動化設備製作組 裝等)都在廠內完成。

圜達的產品可廣泛使用在IOT相關產業:(雲端裝置、智能家居、汽車業、 家電業、健康醫療產品業、工控安全系統及通訊業等)。今日,不僅 Siemens、ABB、Bosch、LG、Samsung、Honeywell、HP、TOSHIBA等 各產業大廠,全球近乎60%的NB產業,都使用圜達生產的開關。

秉持著「卓越與學習、創新與挑戰、團隊與熱忱」的經營理念,圖達將持續專注本業,研發新技術,並積極投入帶LED結合開關、智慧型手機開關的開發,及提供更迅速、更多樣的開關產品來滿足客戸需求。

Diptronics Manufacturing Inc., founded in 1985, is a TS16949 and ISO14001 certified manufacturer specializing in DIP, Tact, Rotary, Slide, Detector, Multi-functional, Micro and Illuminated switch manufacturing. Five major production sites were established in China and one in Vietnam since 1993—Zhuhai, Jiangsu, Jiangxi, Hunan, Zhongshan, and Hanoi. With complete production lines, from raw materials to finished products including press, injection, plating, mold processing, LED bonding, and automatic machine assembling are integrated in house. Diptronics can therefore offer customers timely delivery with superior quality. Our switches are exported to more than 50 countries worldwide.

Diptronics switches can be widely used in IOT applications, such as cloud device, smart home, automotive, white goods, health care products, industry, security telecommunication..., etc. Today, Diptronics switches account for about 60% of global notebook market switch demand. In line with market expectation, Diptronics is one of a few companies in the industry that has in-house assembly line for both LED bonding and LED switches.

Diptronics continues to focus on the switch business and commits to develop new technologies for smart phone, automotive and Illuminated switches. Our goal is to release a variety of switch products for our customers to fulfill the fast changing market demand.





MANAGING CONCEPT DISTINCTION INNOVATION PASSION

•3C / IT Industry

Cloud Devices Automobile Industry 產品應用 Application • White Goods Medical Devices Automatic Home Appliances

我們的競爭優勢:

◎產品線

- 「指撥開關」產量全球第一。
- 「輕觸開關」產量全球第三。
- 「滑動開關、偵測開關、複合式開關」產量為全球前五大。

○國際認證

取得TS-16949、ISO14001,所有產品皆符合無鉛、無鹵規範要求。

◎核心競爭力

- ※擁有垂直整合之核心技術力(產品研發、電鍍、模具及設備加工、金屬沖壓、塑膠射出、自動化設備 製作組裝等),可因應客戸客製化需求,少量多樣化,快速交貨。
- ※專業經營團隊,長期穩定持續成長,迎接各種挑戰。
- ◎全球唯一

自製生產LED燈及開關,並將兩者結合成爲生產LED開關的專業製造廠。

Diptronics Strengths

OProduct Capacity:

Dip switches—Top 1 sales volume worldwide

Tact switches—Top 3 sales volume worldwide

Slide/Detector/Multi-functional switches-top 5 sales volume worldwide

⊘Quality Assurance:

TS16949 & ISO14001 certified and all of our products are RoHS & Halogen free compliant.

◎Integration of core competence:

* Expertise in complete in-house production with vertical integration. We uphold the spirit of "speed" and "passion" by serving fast delivery with product variety.

* Professional R&D team for constant growth and different challenges.

OLED Integration:

Diptronics is one of a few companies that has LED and switch integration with in-house assembly line.



LED Assembly Center



Press M/C



Plastic Injection Machines



LED-38T Optic-Electrical Tester LED Angle Tester



Optical Projection Grinding Machines



CNC Milling Machines





Automated Production Equipment



Wire-cut Electrical Discharge Machines



Dropping Tester



Plating Facility



SEM(Scanning Electron Microscopy) EDS (Energy dispersive spectroscopy)



LED FT-IR



Precision Electric Discharge Machines





RoHS & HALOGEN FREE SUPPORT



AAS Testing Equipment



所有圜達產品皆符合RoHS規範

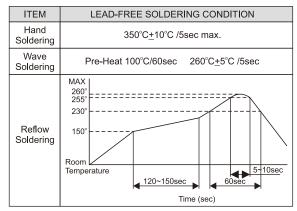
- ◎爲確保產品符合RoHS及特殊客戸要求,公司引進AAS驗證設備,掌 控進料及製程之品質。
- ◎隨時收集國際法規之要求,即時修訂公司內部之文件進行管控。
- ◎「綠色採購」在圜達採購流程中,零件承認時必定請廠商提供 RoHS 檢測報告,經品保單位審核通過後始可使用;同時要求供應商每年提 供RoHS更新驗證報告及定期稽核供應商RoHS管制。
- ◎爲因應新一波的綠色電子浪潮「無鹵素(Halogen-free)」2009年1月 份起,陸續導入無鹵素材料。

Diptroncis RoHS Implement

- ⊙Is equipped with AAS validating devices for RoHS implementation.
- ©Regularly updates internal documentation with worldwide RoHS regulation.
- OProduces green products with only RoHS qualified suppliers and consistently conducts factory audit for RoHS control.
- OUses Halogen Free raw material since January, 2009 to promote a green Earth.



LEAD-FREE SOLDERING





RoHS COMPLIANT

* The limit value that we declare. Pb<100ppm Cd<75ppm Hg<2ppm Cr6<2ppm **PBB<Not Detected** PBDE<Not Detected

* Start from January 2005



HALOGEN FREE Br<900ppm

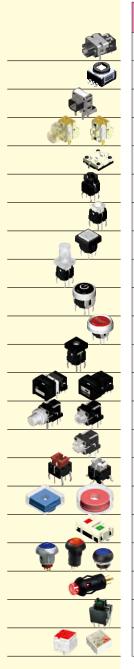
CI<900ppm Br+Cl<1500ppm

% Start from 2009



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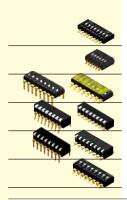
ILLUMINATED SWITCH



Series	Contact Type	Features	Dimensions(mm)	Page
MLF NEW	Silver	Right Angle (SMT)	8.8x4.8	A-01
ML9	Silver	SMT	8.0x8.4	A-02
MLC	Silver	Right Angle	6.8x7.7	A - 03
ML3	Gold / Silver	Right Angle	4.5x6.2	A-04
ML4	Silver	SMT	4.9x4.9	A-06
ML5	Silver	Through Hole	6x6	A-07
ML6-H0	Silver	Through Hole	6x6	A-08
ML6-H1	Silver	Through Hole	6x6 / Cap:10x10	A-09
ML6-H2	Silver	Through Hole	6x6 / Cap:Ø5.5	A-10
ML6-H4	Silver	Through Hole	6x6 / Cap:Ø10	A-11
ML6-H5	Silver	Through Hole	6x6 / Cap:Ø14	A-12
ML6-H6	Silver	Through Hole	6x6 / Cap:7.5x7.5	A-13
ML8	Silver	Right Angle	8.7x9.6	A-14
TL(L)A(G)-7	Silver	Right Angle	7x7.4	A-16
TLR-7	Silver	Right Angle	6.5x7.4	A-18
TL(L)(M)-6	Silver	Through Hole & SMT	6.1x6.1	A-19
KTL		Cap Accessories for TLL-6	Square:□10.2 / Round:Ø10.2	A-21
TML-3	Silver	SMT	6.8x4.1	A-22
ZPA		Wiring	Ø12	A-23
ZPBL	Wiring		Ø5.4	A-28
ZPSD	Through Hole 8.5x7.5		8.5x7.5	A-29
ZKS		Through Hole	15x15	A-30

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DIP SWITCH



В

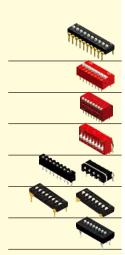
Series	Contact Type	Features	Dimensions(mm)	Page
DHN(F)	Gold	Half Pitch (H:1.6mm)	2,4,6,8,10	B-01
DHA	Gold	Half Pitch (H:2.2mm)	2,4,6,8,10,12	B-03
E(M)(I)(S)(J)	Gold	End Stackable	1-10 , 12	B-04
NP(I)(M)	Gold	Piano	2,4,6,8,10	B-07
EP(I)(M)	Gold	End Stackable Piano	2,4,6,8,10	B-09
D(M)(J)(L)	Gold	SMT	1-10 , 12	B-11

4



В

DIP SWITCH



Series	Contact Type	Features	Dimensions(mm)	Page
NDI	Gold	Through Hole	1-10 , 12	B-13
NDS	Gold	Through Hole	1-10 , 12	B-14
NDP	Gold	Piano	2-10, 12	B-15
NDA	Gold	Right Angle	2-10, 12	B-16
SIP	Gold	Single in Line	2,4,6,8,10	B-17
TII, TIM	Gold	Tri-State Low Profile	4,5,8,9,10	B-19
TDS	Gold	Tri-State	8,9,10	B-21

С



D

Series	Contact Type	Features Dimensions(mm)		Page
RB	Gold	Rotary 10x10 Sealed	8, 10, 16	C-01
KRB		Cap Accessories for RB	Short/Long Spindle & Segment Wheel	C-03
SV3A-4	Gold	Rotary 10x10	4	C-04
R(H)(V)(M)(S)	Gold	Rotary 10x10	10, 16	C-05
RJ	Gold	Rotary 7x7	10, 16	C-08
R7	Gold	Rotary 7x7	10, 16	C-10

TACT SWITCH

ROTARY CODED SWITCH



Series	Contact Type	Features	Dimensions(mm)	Page
TL()-A1	Silver	Sealed	10x10	D-01
TL()-A2	Silver	Sealed	10x10	D-03
TL()-B1	Silver	Sealed	10x10	D-05
TL()-B344	Silver	Sealed	10x10	D-07
DTSA-2	Silver	Right Angle	13.1x14.7	D-09
DTSM-2	Silver	SMT	12.0x12.0	D-11
DTS(G)(P)-2	Silver	Through Hole & Ground Terminal	12.0x12.0	D-13
DTS(G)-6	Gold / Silver	Through Hole & Ground Terminal	6.2x6.2	D-16
DTS(M)(J)-6	Gold / Silver	SMT & J SMT	6.2x6.2	D-18
DTSA-6	Gold / Silver	Right Angle	7.4x7.1	D-21
T7A	Silver	Double Layers Right Angle	7.3x9.66	D-24

5



D

TACT SWITCH



Series	Contact Type	Features	Dimensions(mm)	Page
Т7В	Silver	SMT	7.5x7.0	D-25
DTST-6	Silver	Radial Taping	6.2x6.2	D-26
KTSC-(6)(2)		Cap for 6x6/12x12 Tact Switch	Round / Square	D-27
DTS()W-2	Silver	Sealed	12.0x12.0	D-28
Gold / Silver		Long Travel SMT Sealed	6.2x6.2	D-31
DTSHW-6	Gold / Silver	Sealed	6.2x6.3	D-33
DTS(G)MW-6	Gold / Silver	Sealed	6.2x6.3	D-35
DTSJW-6	Gold / Silver	Sealed	6.2x6.3	D-37
DTSJW()-6	Gold / Silver	Sealed	6.2x6.3	D-39
DTSYHL-6	Silver	Thinner Type Pitch 4.0mm	6.2x6.2	D-40
DTS(G)ZML-6	Silver	Thinner Type Pitch 4.5mm	6.2x6.0	D-41
DTS(G)(L)(F)-6	Silver	Thinner Type Pitch 4.0mm	6.2x6.4	D-43
TA3 Gold / Silver		Right Angle (SMT)	6.3x6.18 / 7 . 11	D-45
TA-6 Silver		Right Angle (SMT)	6.1x6.6	D-47
T1A	Silver	H:0.60mm	2.8x1.9	D-49
T1B	Silver	H:0.55mm	2.6x1.6	D-50
T1D	Silver	H:0.55mm	(2.2x1.3)	D-51
T3AL	Silver	H:0.45mm / 0.65mm	2.6x3.0	D-52
T3BL	Silver	H:0.35mm	3.7x3.7	D-53
T3C	Silver	H:0.60mm	3.0x2.0	D-54
T4BJ	Silver	H:0.55mm	4.8x4.8	D-55
TJ-4	Silver	H:0.55 mm	4.4x4.4	D-56
T()E-5	Gold / Silver	H:0.8 mm / H:1.5mm	5.2x5.2	D-57
Т6Н	Gold / Silver	Through Hole, Right Angle, SMT	7.4x7.4 / 8.0x8.0	D-59
1188	Silver	Side Push	3.5x7.0	D-61
TA(C)(2)-3	Silver	Side Push	3.95x7.3 / 4.65x7.0	D-63
TAF	Silver	Side Push	3.3x4.5	D-66
MTA2	Silver	Side Push	1.8x4.5	D-67
TCD	Silver	PCB Sealed Type Side Push	1.7x4.5	D-68

DIPTRONICS



D

TACT SWITCH



Series	Contact Type	Features	Dimensions(mm)	Page
TCE	Silver	Side Push	1.65x3.8	D-69
T1C NEW	Silver	Side Push Mid-mount	2.8x1.95	D-70
TCF	Silver	Side Push Mid-mount	2.9x4.5	D-71
ТСН	Silver	Side Push Mid-mount	4.5x2.2	D-72
T6L	Silver	Long Travel	5.9x6.0	D-73
LTL-6	Silver	Long Travel	6.2x6.2	D-74
DTS(M)-3	Silver Through Hole & SMT		3.5x6.0	D-75
TAE	Gold / Silver	Thinner (H:2.5mm)	3.8x6.0	D-77
T(M)(J)G-325	Silver	Thinner (H:2.5mm)	3.7x6.0	D-78
IPT	Gold / Silver	Side / Vertical Push	2.8x3.8	D-79
MPT	Silver	Side / Vertical Push	2.9x3.9	D-80
PT	Silver	Side / Vertical Push	3.5x4.7	D-81
TBF	Silver	Side / Vertical Push	2.9x3.5	D-83
TBE	Silver	Vertical Push	2.7x3.0	D-85

SLIDE SWITCH



Ε

Series	Contact Type	Poles-Positions	Stroke	Page
SL6	Silver	2-2	2.0mm	E-01
LSS	Silver	1-2, 2-2	2.0mm	E-02
SD12	Gold	1-3	1.5mm	E-05
SS3	Gold	1-2	2.0mm	E-06
SS4	Gold	1-3	2.0mm	E-08
MSS(3)(4)	Gold	1-2, 1-3	1.5mm	E-10
MSS(6)(14)	Gold	2-2, 1-4	1.5mm	E-11
SC12P	Silver	1-2	2.5mm	E-12
SSS	Gold / Silver	1-2	2.7mm	E-13
NSS	Gold / Silver	1-3	2.0 / 4.0mm	E-14
S2S	Gold / Silver	1-2, 1-3	1.5mm	E-16

7



F DETECTOR SWITCH

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Seri	Series Contact Type		Features	Operation Direction	Page
KTE	NEW	Gold	5.4x13 mm	Vertical	F-01
ELH		Silver	3.3x3.5 mm	Horizontal	F-02
ELU	NEW	Silver	3.6x4.2 mm	Vertical	F-03
DTE		Silver	4 . 15x5 mm	Horizontal	F-04
FTE		Gold / Silver	4.0x5.55 mm	Horizontal	F - 05
HTE		Gold / Silver	5.6x5.7 mm	Horizontal	F-07
TE-MR		Silver	4.7x6 mm	Horizontal	F-08
TE		Silver	3.9x6.5 mm (H: 8.4 / 10.7 mm)	Vertical	F-10
JTE		Silver	3.5x4.7 mm	Vertical	F-12
ATE		Silver	4.5x4.7 mm (H:3.8 / 5.3 mm)	Vertical / Horizontal	F-13
BTE		Silver	2.8x3.5 mm	Vertical	F-14
CTE		Silver	2.98x3.5 mm	Vertical	F-15
TU		Silver	3.6x4.2 mm	Vertical	F-16
TU-D		Silver	3.6x4.2 mm	Vertical	F-17

MULTI FUNCTION SWITCH



G

Series	Contact Type	Features	Dimensions(mm)	Page
M2D	Silver	Double Action / H:0.6mm	4.1x4.3	G - 01
M2P	Silver	Double Action & Lever	7.0x7.0	G-02
PL3	Silver	Push & Lever	11.8x11.8	G-03
PL	Silver	Push & Lever	11.3x9.3	G-05
MT(4)(5)	Silver	4-Direction (& Center Push)	7.7x7.4	G-09
SRM	Silver	8-Direction	11x11.5	G-11
TT5	Silver	5-Direction	9.3x9.3	G-12

8



Mother Board

Smart Wearable



Cloud Devices





Walkie-talkie

Modem/Nettop

Mother Board

LCD Panel

Automobile Industry

Blue Tooth Headset





Double Action Type Ta	ct Switch:	Slide Switch		
М2Р	M2D	SS3	SSS SSS	S25
4-directional Switch:		Detector Switch:		
达 мт5	€ 115	TE-MR	DTE	ELH
Tact Switch:				
TJE-5	T3AL	C T3BL	V PT	Tel F
TCE	TCF	МТА2	твғ	тсн
11A	< тзс	🔷 тів	ттв	11
Tact Switch:			Slide Switch	
РТ	Tel IPT	MTA2	Se MSS3	MSS4
Detector Switch:				
ATE	JTE	👽 ти	ELH	ELU
Illuminated Switch:			Slide Switch:	
ML4	TML-3	ML3	NSS	SC12P
Tact Switch:				
1188	TAC-3	🔷 тј-4	Ф Т1А	🔷 тів

White Goods

3C Industry



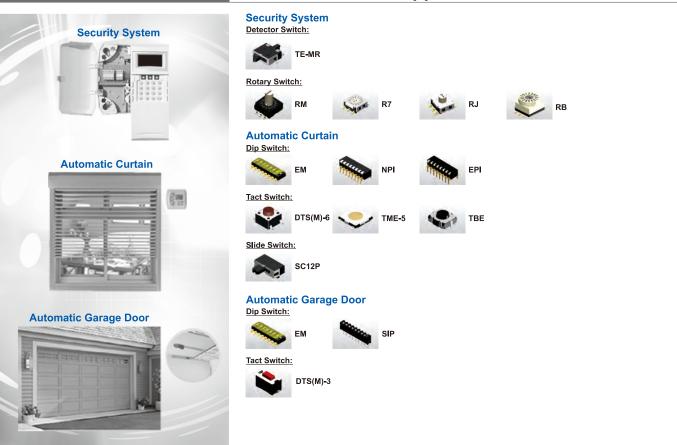
11



Medical Devices



Automatic Home Appliances



12



Security



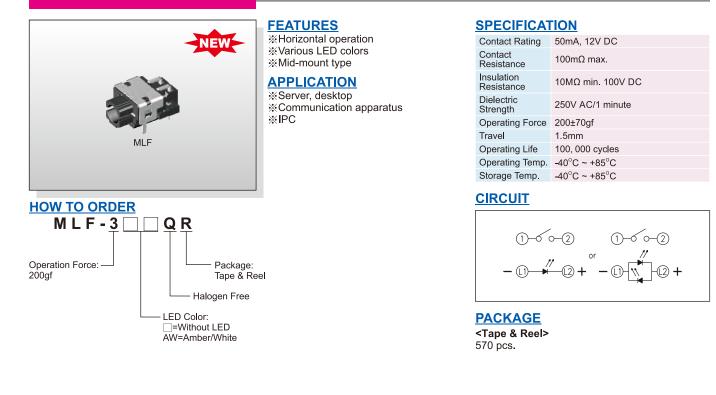


Industrial Control Field

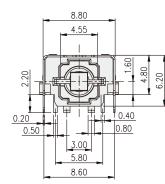
Tact Switch:								
DTS	SM-3	МРТ	Q a	IPT	-	DTSL-6	-	DTSGZM-6
	5	T3AL	\diamondsuit	TJ-4		ТВЕ	-	TBF
118	3	ТАЗ		TAS-6	2	DTSA-6		T7A
DTS	5M-6	T3BL		T1A		T3C	\diamond	T1B
Slide Switch:								
MS:		SS3	~	S2S				
Rotary Switch:								
RM	S	R7	1	RJ	Ş	RB		
Dip Switch:								
	5	NDA		NDP		DM	mm	EI
TDS		тім						
Illuminated Swite	<u>ch:</u>							
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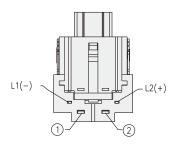


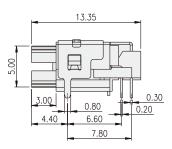


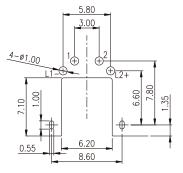


MLF







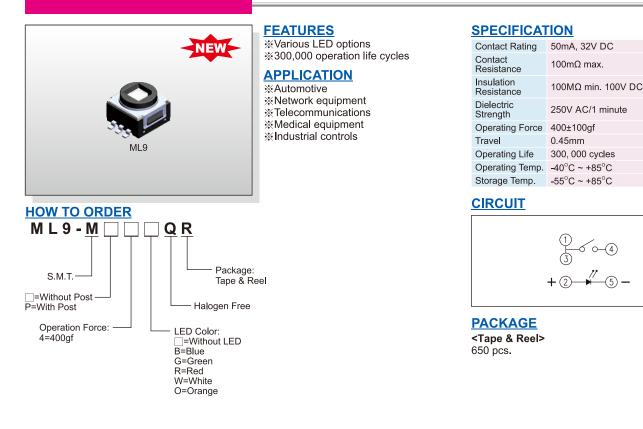


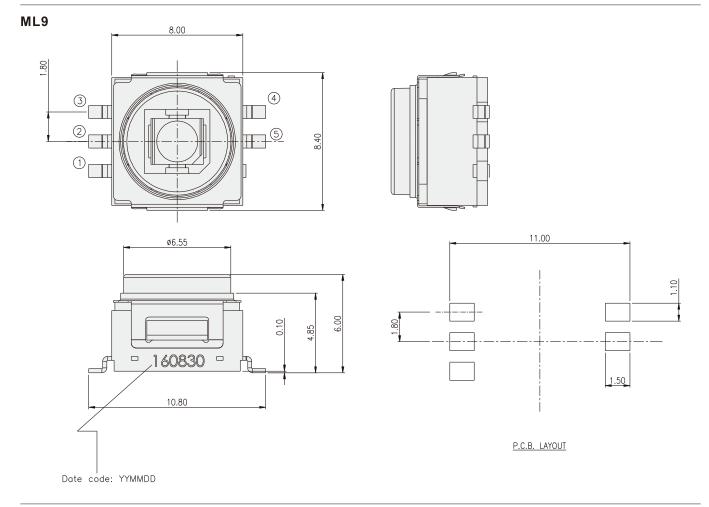
P.C.B. LAYOUT

A-01 DIPTRONICS

Tact Switch Illuminated







www.dip.com.tw



HOW TO ORDER

Operation Force:-3=220gf

MLC

M L C - 6 🗌 W A Q 🗌







*Horizontal operationVarious LED colorsLong operation life

APPLICATION %Automotive

%Server ⊛Laptop, IPC

Package: A=Tray R=Tape & Reel

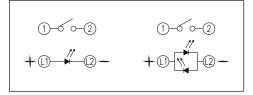
Halogen Free

LED Color: White+Amber

SPECIFICATION

Contact Rating	50mA, 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩ min. 100V DC
Dielectric Strength	250V AC/1 minute
Operating Force	220±50gf
Travel	0.25mm
Operating Life	100, 000 cycles
Operating Temp.	-25°C ~ +70°C
Storage Temp.	-30°C ~ +80°C

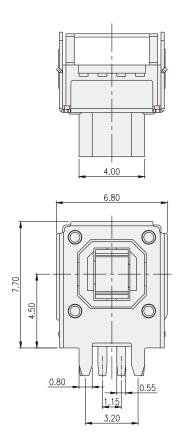
<u>CIRCUIT</u>

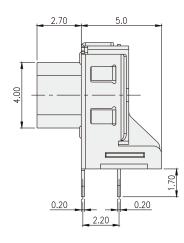


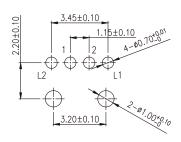
PACKAGE

<Tray> 200 pcs. <Tape & Reel> 350 pcs.

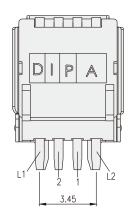
MLC

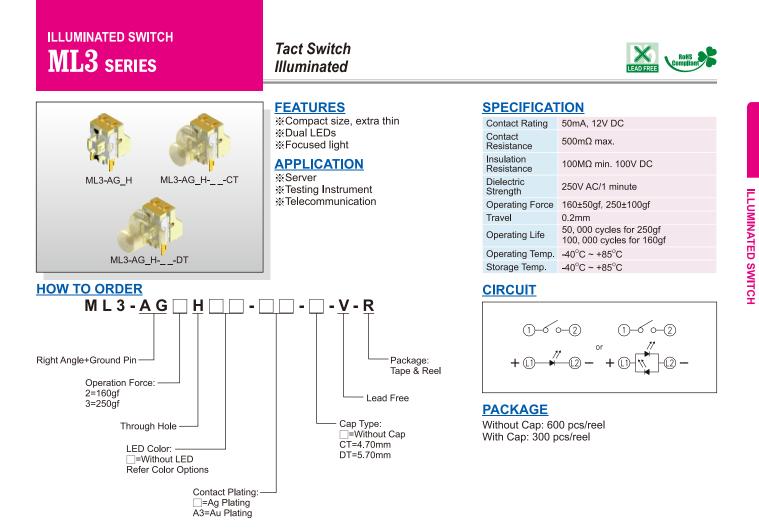




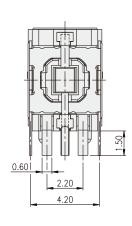


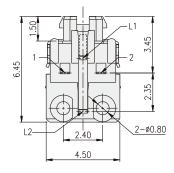
P.C.B. LAYOUT

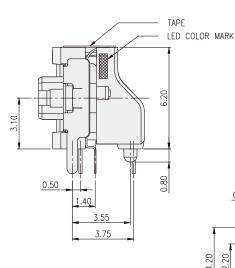


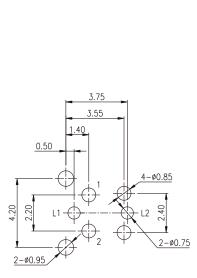


ML3







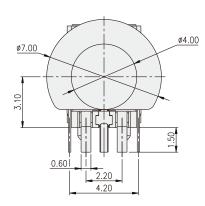


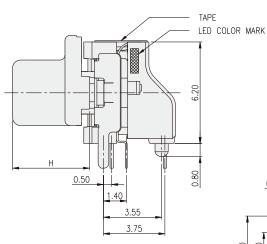
P.C.B. LAYOUT

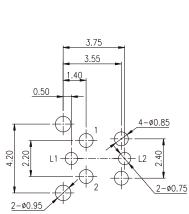
Tact Switch Illuminated



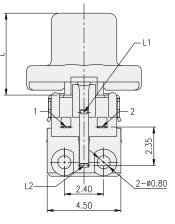
ML3-AG2H











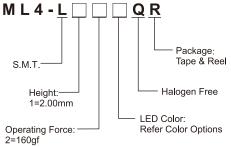
PART NO.	Н	L
ML3-AG2H CT-V-R	4.7mm	5.0mm
ML3-AG2H DT-V-R	5.7mm	6.0mm

LED Color Options:

Part No.	Color	Dominant Wavelenght λ _p	$\lambda_{\rm p}$ $I_{\rm v}({\rm mcd})$		Voltage (V)	View Angle 2·θ _{1/2} (Degree)
		Typ.(nm)	Тур.	Тур.	Max.	
В	Blue	470	50	3.0	3.6	
PB	Blue	470	70	3.0	3.6	
PG	Pure Gree	520	160	3.2	3.6	
G	Yellow Green	570	30	2.0	2.3	140°
Y	Yellow	590	60	2.0	2.3	140
A	Soft Orange	605	50	2.0	2.3	
R	Red	630	60	2.0	2.3	
W	Cold White	X:0.30 / Y:0.30	350	3.0	3.6	



HOW TO ORDER



Tact Switch Illuminated

FEATURES

*Compact size 4.9x4.9 with LED XUltra-thin: a height of 2.0mm

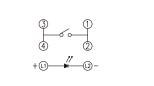
APPLICATION %NB, Monitor %Portable device ☆Tablet

SPECIFICATION

Contact Rating	50mA, 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	$100M\Omega$ min. 500V DC
Dielectric Strength	250V AC/1 minute
Operating Force	160±50gf
Travel	0.25mm
Operating Life	1,000, 000 cycles
Operating Temp.	-40°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

RoHS Complia

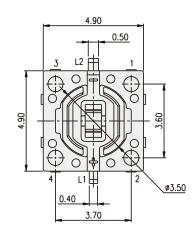
CIRCUIT

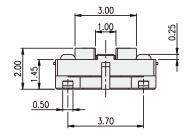


PACKAGE

<Tape & Reel> 2500 pcs.

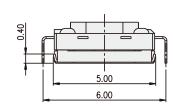
ML4

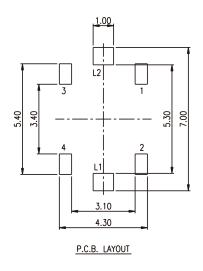




LED Color Options:

Part No.	Color	Dominant Wavelenght λ _p	Luminous Intensity I _v (mcd)	Forward V _F (Voltage (V)	View Angle 2 θ _{1/2}
		Typ.(nm)	Тур.	Тур.	Max.	(Degree)
В	Blue	470	100	3.0	3.6	
G	Green	570	30	2.05	2.4	120°
R	Red	605	50	1.9	2.4	120
W	Cold White	X:0.30 / Y:0.30	150	3.0	3.6	

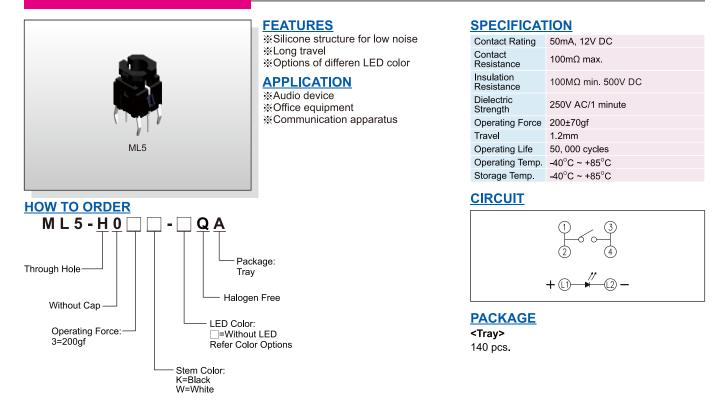




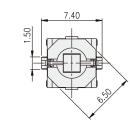


Tact Switch Illuminated



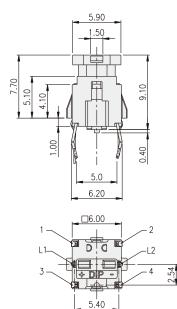


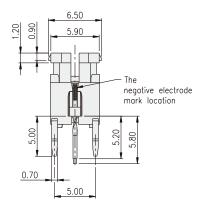
ML5

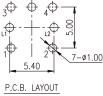


LED Color Options:

Part No.			Luminous Intensity I _v (mcd)		l Voltage (V)	View Angle $2 \cdot \theta_{1/2}$
		Typ.(nm)	Тур.	Тур.	Max.	(Degree)
В	Blue	470	80	3.0	3.6	
PG	Pure Gree	520	160	3.2	3.6	
G	Yellow Green	570	30	2.0	2.3	
Y	Yellow	590	60	2.0	2.3	140°
Α	Soft Orange	605	50	2.0	2.3	
R	Deep Red	640	25	2.0	2.3	
W	Cold White	X:0.30 / Y:0.30	350	3.0	3.6	





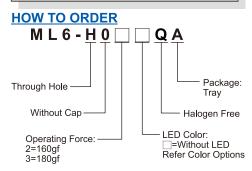


A-07 DIPTRONICS

ILLUMINATED SWITCH







FEATURES

*Customized cap options *Bi-color LED available *Long operating life

APPLICATION

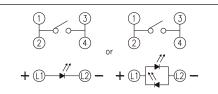
Sever, modem, data storageAudio moduleOffice equipment

SPECIFICATION

Contact Rating	50mA, 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	$100M\Omega$ min. $100V$ DC
Dielectric Strength	250V AC/1 minute
Operating Force	160±50gf, 180±50gf
Travel	0.25mm
Operating Life	300, 000 cycles
Operating Temp.	-40°C ∼ +85°C
Storage Temp.	-40°C ~ +85°C

RoHS Complia

<u>CIRCUIT</u>



Forward Voltage

 $V_{F}(V)$

Max.

3.6

3.6

2.3

2.3

2.3

2.3

3.6

Тур.

3.0

3.2

2.0

2.0

2.0

2.0

3.0

 $\begin{array}{c} \text{View Angle} \\ 2 \cdot \theta_{_{1/2}} \\ \text{(Degree)} \end{array}$

140°

PACKAGE

Luminous Intensity I_v (mcd)

Тур.

70

160

30

60

50

60

350

Dominant Wavelenght

λ_D Typ.(nm)

X:0.30 / Y:0.30

470

520

570

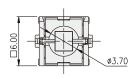
590

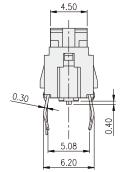
605

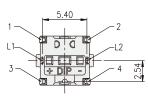
630

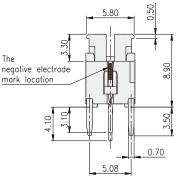
<Tray> 140 pcs.

ML6-H0









LED Color Options:

Blue

Color

Pure Gree

Yellow

Red

Yellow Green

Soft Orange

Cold White

Part No.

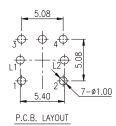
B PG

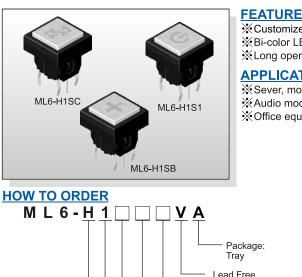
> G Y

А

R

W





Lead Free LED Color: =Without LED Refer Color Options Operating Force: 2=160gf

Cap Finish See Note

Tact Switch Illuminated

FEATURES

*Customized cap options XBi-color LED available [™]Long operating life

APPLICATION

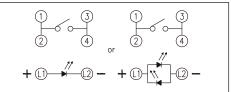
*Sever, modem, data storage XAudio module *Office equipment

SPECIFICATION

Contact Rating	50mA, 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩ min. 100V DC
Dielectric Strength	250V AC/1 minute
Operating Force	160±50gf
Travel	0.25mm
Operating Life	300, 000 cycles
Operating Temp.	-40°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

RoHS Complian

CIRCUIT



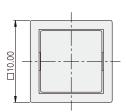
PACKAGE

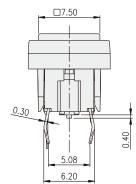
<Tray> 100 pcs.

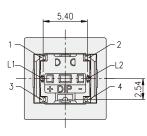
ML6-H1

Through Hole

Cap Type: Square

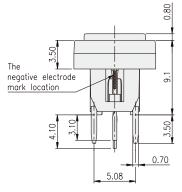


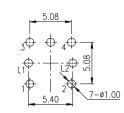




LED Color Options:

Part No.			Luminous Intensity I _v (mcd)		Voltage (V)	View Angle $2 \theta_{1/2}$
		Typ.(nm)	Тур.	Тур.	Max.	(Degree)
В	Blue	470	70	3.0	3.6	
PG	Pure Gree	520	160	3.2	3.6	
G	Yellow Green	570	30	2.0	2.3	
Y	Yellow	590	60	2.0	2.3	140°
A	Soft Orange	605	50	2.0	2.3	140
R	Red	630	60	2.0	2.3	
W	Cold White	X:0.30 / Y:0.30	350	3.0	3.6	





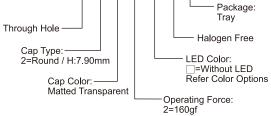
P.C.B. LAYOUT

Not	e:				
\backslash	CAP				
$ \setminus$	Mark	Color			
S1	С С	Silver			
S2	Reset	Silver			
SA	-	Silver			
SB	+	Silver			

A-09 DIPTRONICS

ILLUMINATED SWITCH

FEAT *Cus *Bi-C *Lon APPI *Sev *Auc *Offin HOW TO ORDER M L 6 - H T Q A Package:



FEATURES

%Customized cap options %Bi-color LED available %Long operating life

APPLICATION

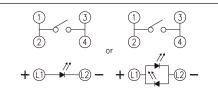
Sever, modem, data storageAudio moduleOffice equipment

SPECIFICATION

Contact Rating	50mA, 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	$100M\Omega$ min. $100V$ DC
Dielectric Strength	250V AC/1 minute
Operating Force	160±50gf
Travel	0.25mm
Operating Life	300, 000 cycles
Operating Temp.	-40°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

RoHS Complia

<u>CIRCUIT</u>

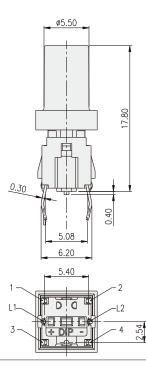


PACKAGE

<Tray> 100 pcs.

ML6-H2





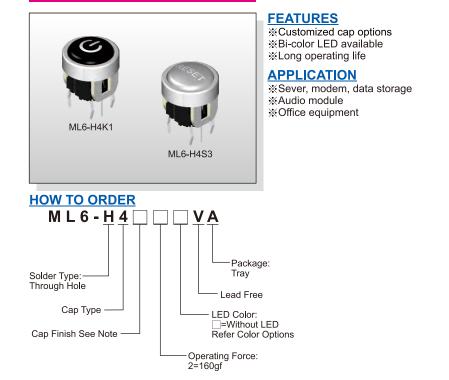


Part No.		Luminous Intensity I _v (mcd)	Forward Voltage $V_{F}(V)$		View Angle 2∙θ _{1/2} (Degree)	
		Typ.(nm)	Тур.	Тур.	Max.	(Degree)
В	Blue	470	70	3.0	3.6	
PG	Pure Gree	520	160	3.2	3.6	
G	Yellow Green	570	30	2.0	2.3	
Y	Yellow	590	60	2.0	2.3	140°
А	Soft Orange	605	50	2.0	2.3	140
R	Red	630	60	2.0	2.3	
W	Cold White	X:0.30 / Y:0.30	350	3.0	3.6	
tive electro	de		$\begin{array}{c} 5.08 \\ 3 \\ \hline 0 \\ 1 \\ \hline 0 \\ 5.40 \end{array}$	-	<u>91.00</u>	

ILLUMINATED SWITCH ML6-H4 SERIES

Tact Switch Illuminated

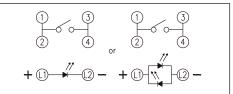




SPECIFICATION

Contact Rating	50mA, 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩ min. 100V DC
Dielectric Strength	250V AC/1 minute
Operating Force	160±50gf
Travel	0.25mm
Operating Life	300, 000 cycles
Operating Temp.	-40°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

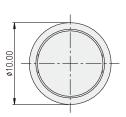
<u>CIRCUIT</u>

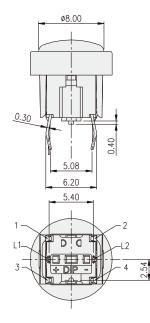


PACKAGE

<Tray> 100 pcs.

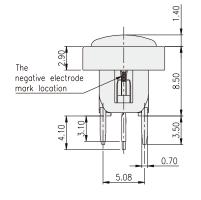
ML6-H4

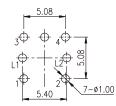






Part No.	Color	Dominant Wavelenght $\lambda_{\rm D}$	Luminous Intensity I _v (mcd)		Voltage (V)	View Angle $2 \cdot \theta_{_{1/2}}$
		Typ.(nm)	Тур.	Тур.	Max.	(Degree)
В	Blue	470	70	3.0	3.6	
PG	Pure Gree	520	160	3.2	3.6	
G	Yellow Green	570	30	2.0	2.3	
Y	Yellow	590	60	2.0	2.3	140°
Α	Soft Orange	605	50	2.0	2.3	140
R	Red	630	60	2.0	2.3	
W	Cold White	X:0.30 / Y:0.30	350	3.0	3.6	





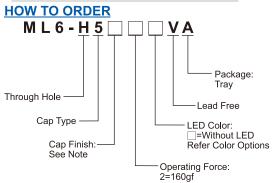
P.C.B. LAYOUT

NOTE :					
C/	٩P				
MARK	COLOR				
ds	SILVER				
0	BLACK				
DEPET	SILVER				
REGET	BLACK				
	SILVER				
	BLACK				
	C/				

A-11 DIPTRONICS







FEATURES

*Customized cap options *Bi-color LED available *Long operating life

APPLICATION

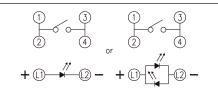
Sever, modem, data storageAudio moduleOffice equipment

SPECIFICATION

Contact Rating	50mA, 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	$100M\Omega$ min. $100V$ DC
Dielectric Strength	250V AC/1 minute
Operating Force	160±50gf
Travel	0.25mm
Operating Life	300, 000 cycles
Operating Temp.	-40°C ∼ +85°C
Storage Temp.	-40°C ~ +85°C

RoHS Complia

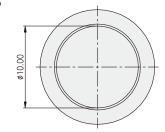
<u>CIRCUIT</u>

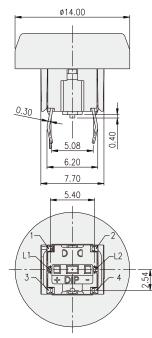


PACKAGE

<Tray> 100 pcs.

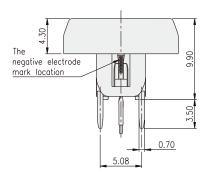
ML6-H5

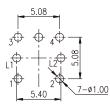




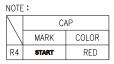
LED Color Options:

Part No.	Color	Dominant Wavelenght λ _p	Luminous Intensity I _v (mcd)		Voltage (V)	View Angle 2 θ _{1/2}
		Typ.(nm)	Тур.	Тур.	Max.	(Degree)
В	Blue	470	70	3.0	3.6	
PG	Pure Gree	520	160	3.2	3.6	
G	Yellow Green	570	30	2.0	2.3	
Y	Yellow	590	60	2.0	2.3	140°
А	Soft Orange	605	50	2.0	2.3	140
R	Red	630	60	2.0	2.3	
W	Cold White	X:0.30 / Y:0.30	350	3.0	3.6	





P.C.B. LAYOUT



ILLUMINATED SWITCH ML6-H6 SERIES

Tact Switch Illuminated



50mA, 12V DC

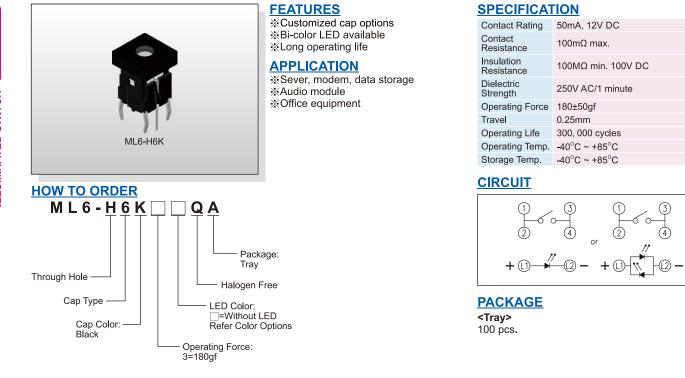
100mΩ max.

0.25mm

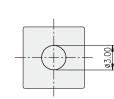
100MΩ min. 100V DC

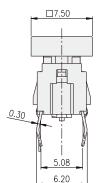
250V AC/1 minute

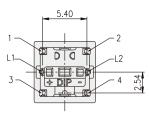
300, 000 cycles



ML6-H6

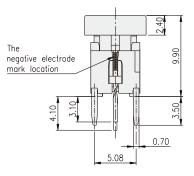


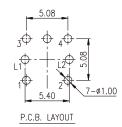




LED Color Options:

color obtactor						
Part No.	Color	Dominant Wavelenght λ _p	Luminous Intensity I _v (mcd)		l Voltage (V)	View Angle $2 \theta_{1/2}$
		Typ.(nm)	Тур.	Тур.	Max.	(Degree)
В	Blue	470	70	3.0	3.6	
PG	Pure Gree	520	160	3.2	3.6	
G	Yellow Green	570	30	2.0	2.3	
Y	Yellow	590	60	2.0	2.3	140°
Α	Soft Orange	605	50	2.0	2.3	140
R	Red	630	60	2.0	2.3	
W	Cold White	X:0.30 / Y:0.30	350	3.0	3.6	

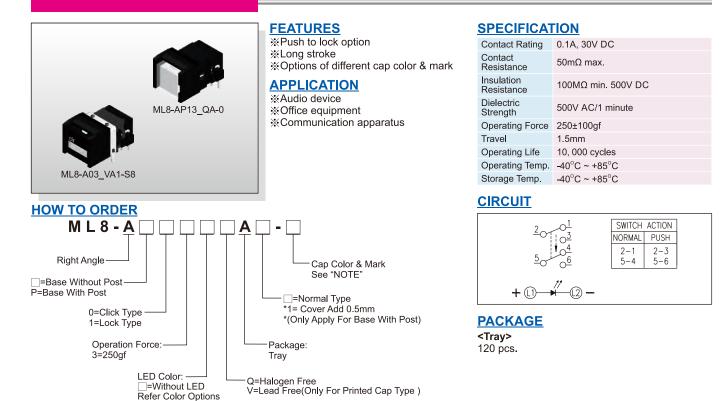




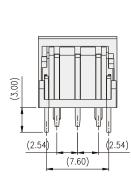


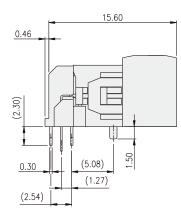


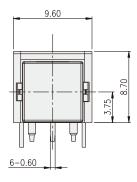




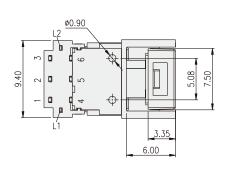
ML8-AP13

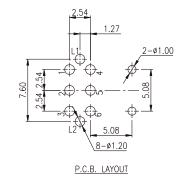






NOTE :			
\square	CA	١P	
	Mark	Color	
0	Cap no mark	Transparent	
K1	С С	Black	
K5	Ð	Black	
K6	R	Black	
K7	() 8000	Black	
S8	cir CMOS	Silver	
K9		Black	



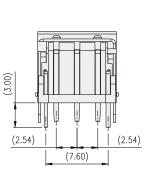


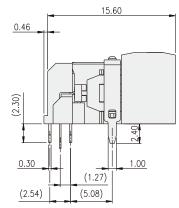
Tact Switch Illuminated

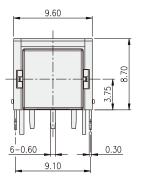


ML8-A03

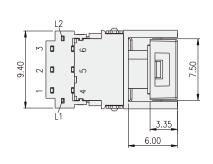


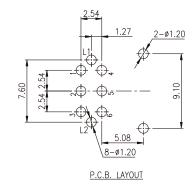






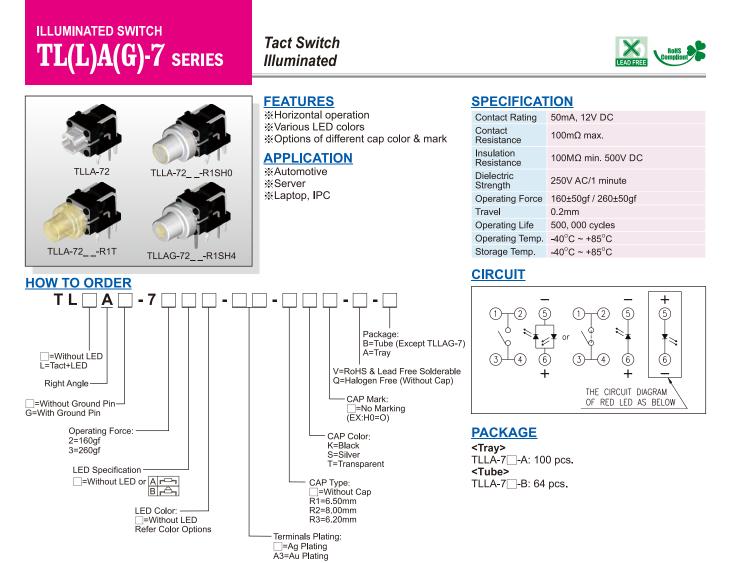
CA Mark Cap no mark	AP Color
	Color
Can no mark	
cup no murk	Transparent
G	Black
Ð	Black
Q	Black
() Bos	Black
dr CMOS	Silver
	Black



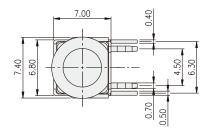


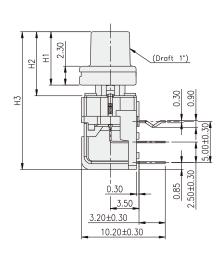
LED Color Options:

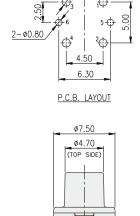
Part No.	Part No. Color λ_{D}		Luminous Intensity I _v (mcd)	Forward V _F (Voltage (V)	View Angle 2·θ _{1/2}
		Typ.(nm)	Тур.	Тур.	Max.	(Degree)
В	Blue	470	70	3.0	3.6	
PG	Pure Gree	520	160	3.2	3.6	
G	Yellow Green	570	30	2.0	2.3	
Y	Yellow	590	60	2.0	2.3	140°
A	Soft Orange	605	50	2.0	2.3	140
R	Deep Red	640	25	2.0	2.3	
W	Cold White	X:0.30 / Y:0.30	350	3.0	3.6	



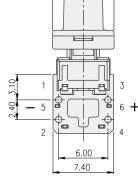
TLLA-72







4-ø1.00



	PART NO.	H1	H2	H3
	TLLA-7000-0-R10	6.50	7.80	16.80
	TLLA-7000-0-R20	8.00	9.30	18.30
[TLLA-7000-0-R30	6.20	7.50	16.50

NOTE :		
\square	CAP	
	MARK	
но	0	
Н1	Φ	
H2	٢	
Н3	G	
Н4		
Н7	Ð	
Н8	0	
Н9	G	
НА	©	
нв	Ģ	
нс	•	

ILLUMINATED SWITCH TL(L)A(G)-7 SERIES





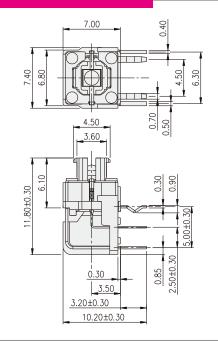
Ð

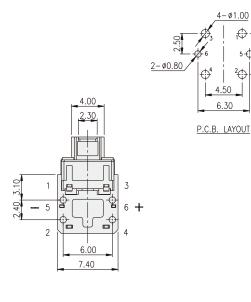
2€

5-0

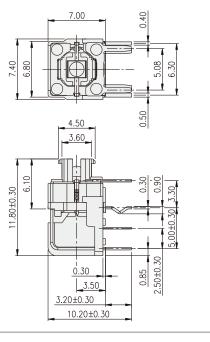
5.00

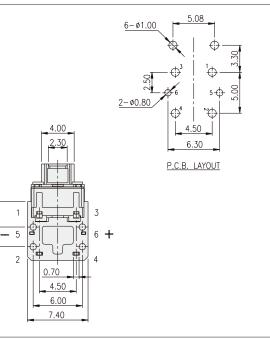
TLLA-72







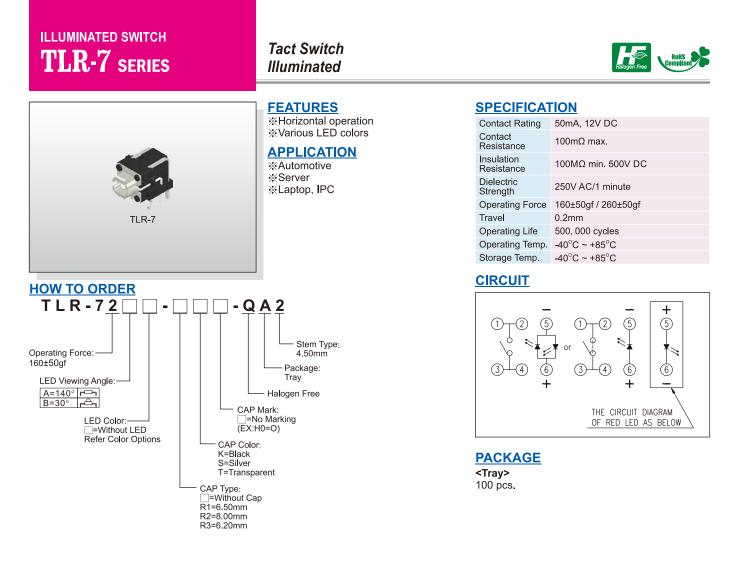




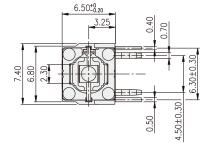
LED Color Options:

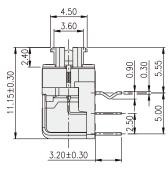
Part No.	Color	Dominant Wavelenght	Luminous Intensity I_v (mcd)		Forward Voltage V _F (V)		$2 \cdot \theta_{1/2}$	
		∧₀ Typ.(nm)	Ту	Тур.	Max.	(Degree)		
				₿┍╧┑	ιyμ.	wax.		Bran
В	Blue	470	70	1100	3.0	3.6		30°
PG	Pure Gree	520	160	2500	3.2	3.6		
G	Yellow Green	570	30	550	2.0	2.3		
Y	Yellow	590	60	1500	2.0	2.3	140°	
A	Soft Orange	605	50	1500	2.0	2.3		
R	Deep Red	640	25	800	2.0	2.3		
W	Cold White	X:0.30 / Y:0.30	350	550	3.0	3.6		

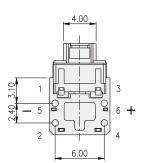
2.40, 3.10





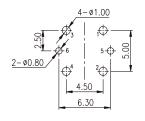




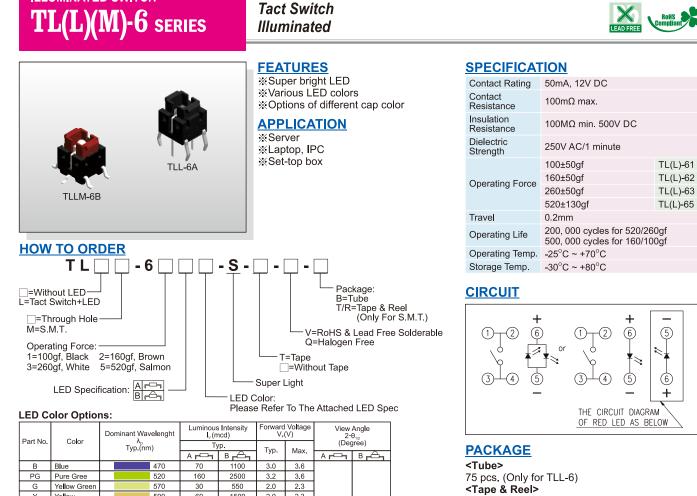


LED Color Options:

		Dominant Wavelenght	Luminous Intensity I _v (mcd)		Forward Voltage V _F (V)		View Angle 2·θ _{1/2}	
Part No.	Color	ryp.(nm)	Тур.		Тур.	Max.	(Degree)	
				₿┍╧┑	тур.	Wax.		₿┍╧┑
В	Blue	470	70	1100	3.0	3.6		
PG	Pure Gree	520	160	2500	3.2	3.6		
G	Yellow Green	570	30	550	2.0	2.3		
Y	Yellow	590	60	1500	2.0	2.3	140°	30°
A	Soft Orange	605	50	1500	2.0	2.3		
R	Deep Red	640	25	800	2.0	2.3		
W	Cold White	X:0.30 / Y:0.30	350	550	3.0	3.6		



P.C.B. LAYOUT



TLL-6 A

Y

Α

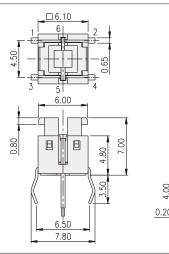
R Red

W

Yellow

Soft Orange Red Orange

Cold White



60

50

80

60

350

1500

1500

3000

1000

550

2.0 2.0

2.0

2.0

3.0

2.3 2.3

2.3

2.3

3.6

140

3.96

2.90

3.96

2.90

10.00

Ш

1.85

30°

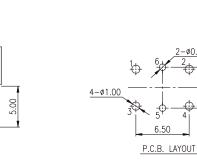
590

605

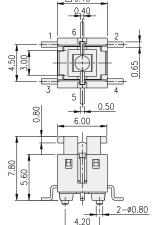
620

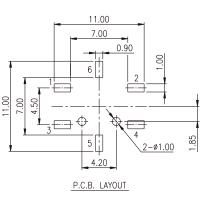
630

X:0.30 / Y:0.30



TLLM-6 B





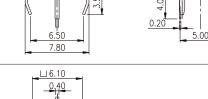
450 pcs. (Only for TLLM-6)

ø0.80

6.50

20 5.00

TL(L)-63 TL(L)-65



ILLUMINATED SWITCH

A-19 DIPTRONICS



TLL-6C

- Q - B

Tact Switch Illuminated

FEATURES

*Super bright LED **%Various LED colors** *Options of different cap color

APPLICATION

℁Laptop, IPC Set-top box

Package: Tube

LED Pitch=5.80mm & Body H:7.20mm

LED Pitch=5.00mm & Body H:7.20mm

LED Color: Please Refer To The Attached LED Spec

-8-

7

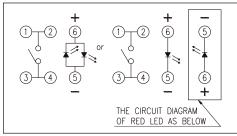
Halogen Free

SPECIFICATION

Contact Rating	50mA, 12V DC				
Contact Resistance	100mΩ max.				
Insulation Resistance	100MΩ min. 500V DC				
Dielectric Strength	250V AC/1 minute				
	100±50gf	TL(L)-61			
Operating Force	160±50gf	TL(L)-62			
Operating Force	260±50gf	TL(L)-63			
Travel	0.2mm				
Operating Life	200, 000 cycles for 260gf 500, 000 cycles for 160/100gf				
Operating Temp.	-25°C ~ +70°C				
Storage Temp.	-30°C ~ +80°C				

RoHS Complian

CIRCUIT



PACKAGE

<Tube> 75 pcs.

LED Color Options:

TIL-6F

HOW TO ORDER

Tact Switch+LED

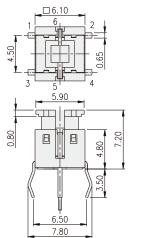
Operating Force:

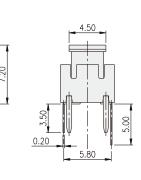
1=100gf, White 2=160gf, White 3=260gf, White

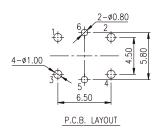
T L L - 6 🗌

DestNo	0.1	Dominant Wavelenght	Luminous Intensity I _v (mcd)		Forward Voltage $V_{F}(V)$		View Angle 2·θ _{1/2}	
Part No.	Color	Λ _ρ Typ.(nm)	Тур. С, Е Г , Б , Г , С,		Тур.	Max.	(Deo C, E r=⊐=-1	pree) D, Fr-
В	Blue	470	70	1100	3.0	3.6		
PG	Pure Gree	520	160	2500	3.2	3.6		
G	Yellow Green	570	30	550	2.0	2.3		
Y	Yellow	590	60	1500	2.0	2.3	140°	30°
A	Soft Orange	605	50	1500	2.0	2.3	140	30
0	Red Orange	620	80	3000	2.0	2.3		
R	Red	630	60	1000	2.0	2.3		
W	Cold White	X:0.30 / Y:0.30	350	550	3.0	3.6		

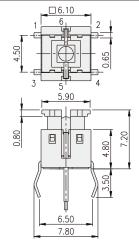
TLL-6 C

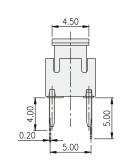


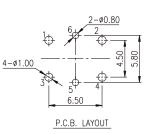


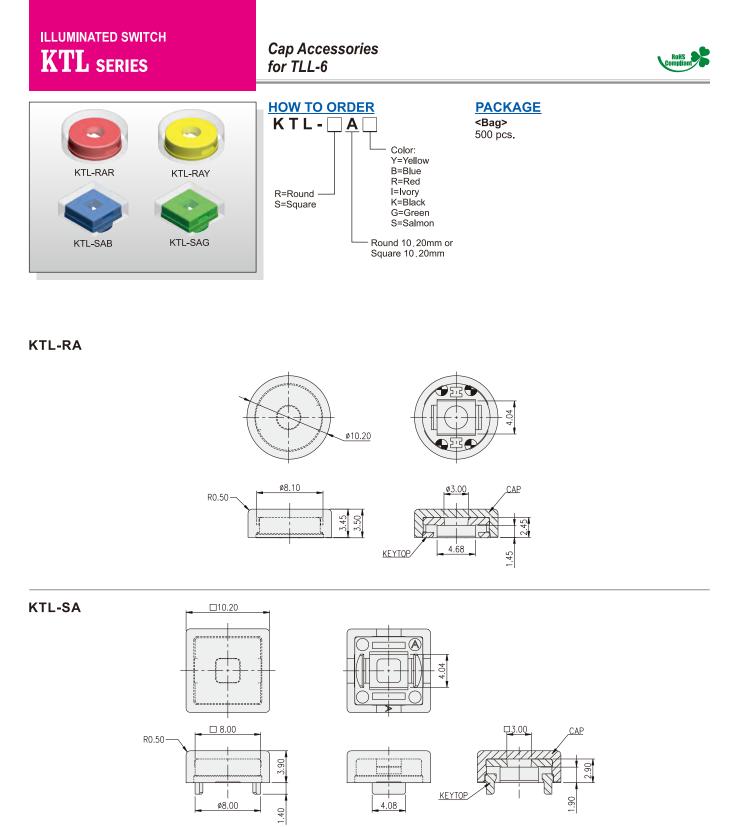


TLL-6 F

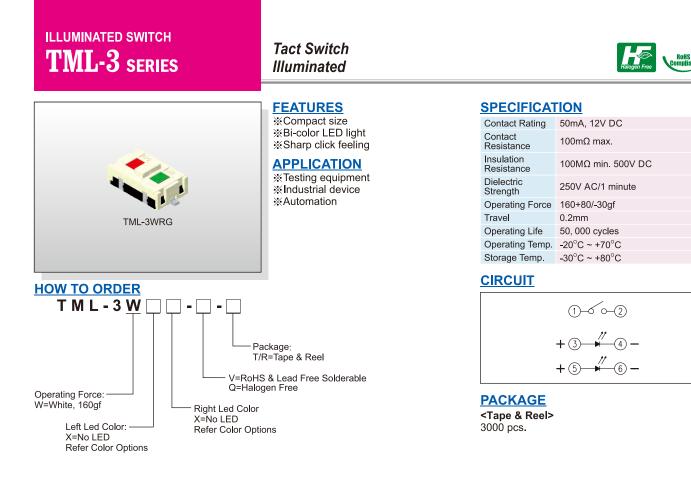


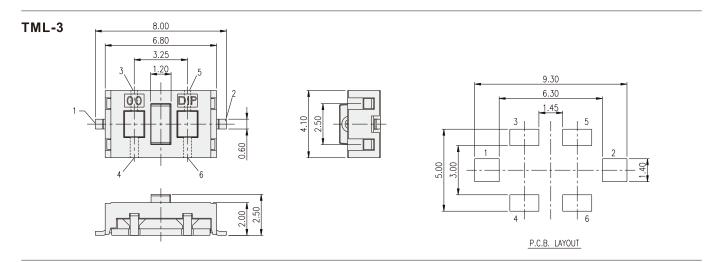






A-21 DIPTRONICS





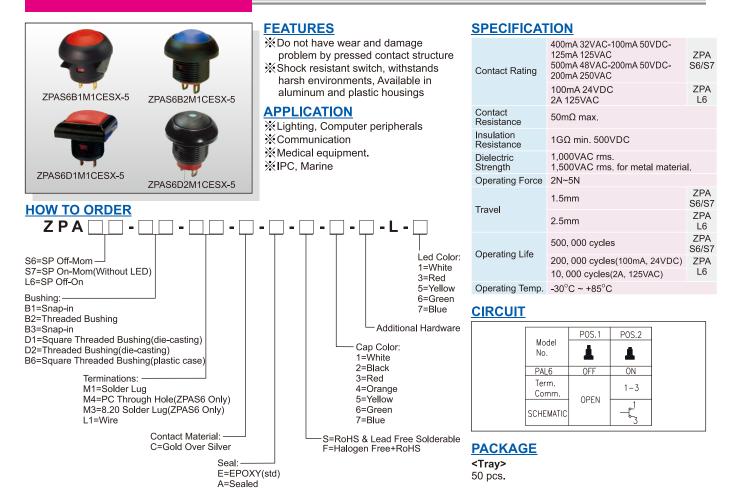
LED Color Options:

Part No.	Color	Dominant Wavelenght	Luminous Intensity I _v (mcd)	Forward Voltage $V_{F}(V)$		View Angle 2 θ ₁₂ (Degree)	
		Typ.(nm)	Тур.	Тур.	Max.	2 0 _{1/2} (Degree)	
В	Blue	470	70	3.0	3.6		
G	Yellow Green	570	30	2.0	2.3		
0	Yellow	590	60	2.0	2.3	140°	
A	Soft Orange	605	50	2.0	2.3	140*	
R	Red	630	60	2.0	2.3		
W	Cold White	X:0.30 / Y:0.30	350	3.0	3.6		

ILLUMINATED SWITCH

Sub-Miniature Pushbutton Switches Illuminated



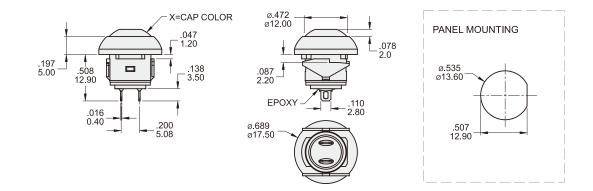


SWITCH FUNCTION

NO. MODEL POLES NO.		SWITCH FUNCTION		CONNECTED TERMINALS		
		POS.1	POS.2	POS.1	POS.2	SCHEMATIC
		1	1	1	1	SCHEMATIC
SP	ZPAS6	OFF	МОМ	OPEN	1-3	
SP	ZPAS7	ON	OFF(MOM)	1-3	OPEN	
SP	ZPAL6	OFF	ON	OPEN	1-3	

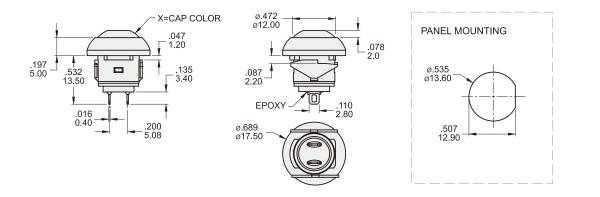
MOM=MOMENTARY

ZPAS6B1M1CESX-5

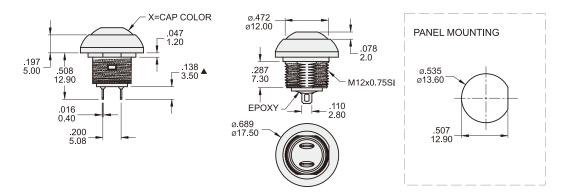




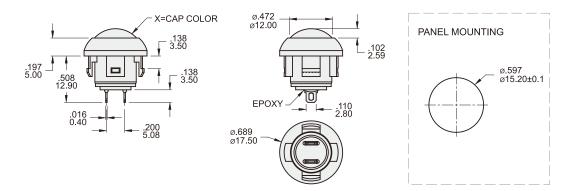
ZPAS7B1M1CESX-5



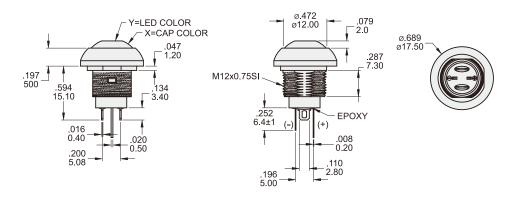
ZPAS6B2M1CESX-5



ZPAS6B3M1CESAX-5

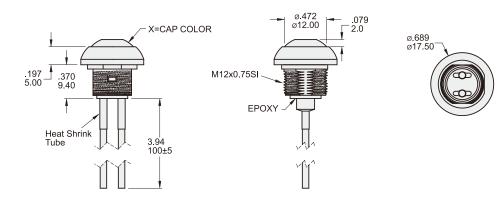


ZPAS6B2M1CESX-5LY

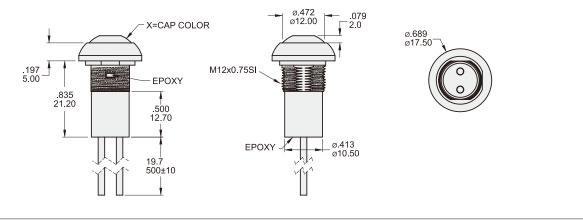




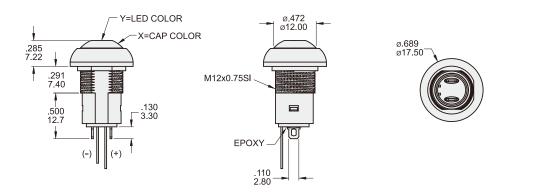
ZPAS6B2L3CESX-5

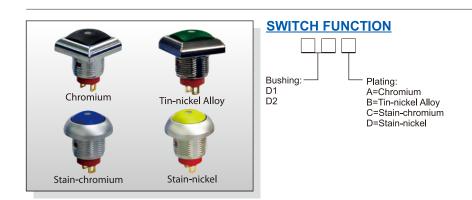


ZPAS6B2L1CASX-5



ZPAL6B2M1CESX-5LY

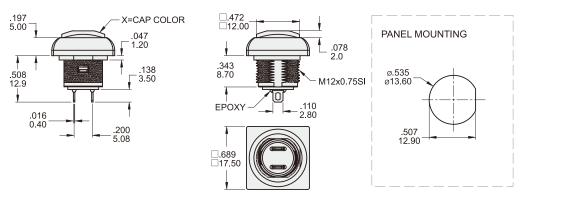




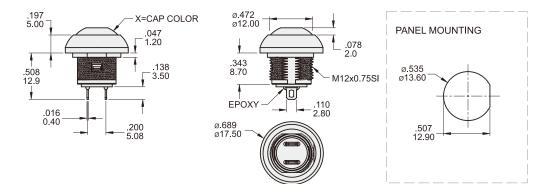
A-25 DIPTRONICS



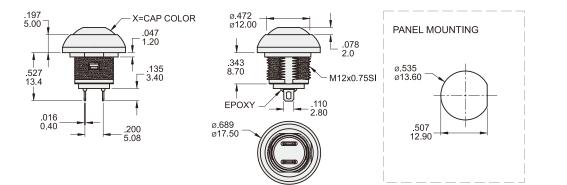
ZPAS6D1M1CESX-5



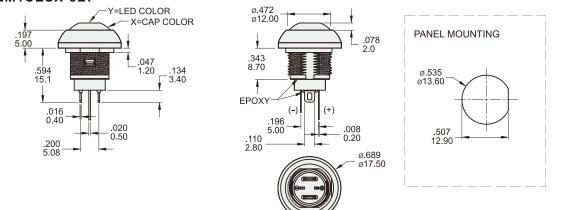
ZPAS6D2M1CESX-5



ZPAS7D2M1CESX-5



ZPAS6D2M1CESX-5LY



Sub-Miniature Pushbutton Switches Illuminated

ø.551 ø14.00

.039

MCP-P005

D1 / D2 options



ø.669 ø17.00

.039

1.00

EVA

ø.591 ø15.00

.039

1.00

MCP-P004

B3 options

Supplied standard with

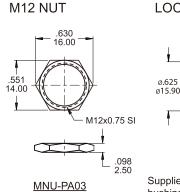
WASHER

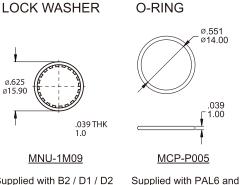
MSU-PA01

B1/B2 options

Supplied standard with

HARDWARE





Supplied with B2 / D1 / D2 bushina



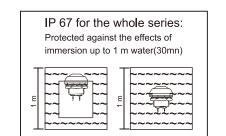
O-RING

WITH LED ELECTRO-OPTICAL DATA * The LED specification for refereence only Electro-potical Data (AT 20mA) Model Lens Peak Viewing Angle Color Vf (V) lv (mcd) Wavelength 2C 1/2 (deg) No. Appearance Тур. Max Тур. Min. Super White 200 X / Y=0.27 2.8 3.3 100 PAS6 Super Red 2.0 2.5 700 200 645 Water & Yellow 2.1 2.6 100 55 589 Clear PAS7 Green 2.2 2.7 130 70 565 Super Blue 3.1 3.6 580 250 460 2.6 475 Y 2 210 590 Super Yellow (Super Green) 2.6 G 2 210 140 570 Super Yellow Y 2.1 2.6 200 94 590 35° (Super Blue) В 3.2 3.6 200 94 460 Super Yellow 2.1 2.6 100 63 590 Υ (Super Red) R 2 2.6 90 42 630 R 90 42 630 2 2.6 Super Red (Super Green) 2.6 570 G 90 42 2.0 90 42 630 Super Red R 2 2.6 (Super Blue) В 3.2 3.6 200 94 460 Super Green G 2.0 2.6 100 42 570 (Super Blue) В 3.2 3.6 200 94 460 X=0.31 White 3.3 4 250 50 Y=0.31 Super Red 1.95 2.5 350 70 635 Water 90° Super Yellow PAL6 2 2.5 160 70 590 Clear Super Green 2.1 2.5 70 18 570 Super Blue 3.3 4 150 36 470 Y 2 2.5 170 50 590 Super Yellow (Super Green) G 2.1 2.5 50 18 570 Υ 1.95 2.5 220 70 630 Super Yellow 170° (Super Red) R 2 2.5 170 50 590 R 1.95 2.5 220 70 630 Super Red (Super Green) G 2.5 570 2.1 50 18

SOLDERING PROCESSES

MANUAL SOLDERING: Use soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder. WAVE SOLDERING:

Recommended Soldering Temperature: 260 ± 5°C Duration of Solder Immersion: Max 5 sec. (PCB is 1.6mm in thickness)



A-27 DIPTRONICS

ILLUMINATED SWITCH

Pushbutton Switches Illuminated

> High brightness LED. Button surface are illuminated and even

FEATURES %Small size %Long electrical life

APPLICATION

Computer productsCommunication equipments

XAudio equipment

*Automotive industry





HOW TO ORDER Z P B L -

Led Color: 01=White 03=Red 05=Yellow 06=Green 07=Blue 76=Blue(Green)

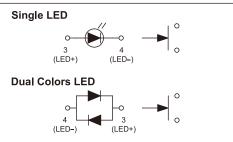
WITH LED ELECTRO-OPTICAL DATA

			Electro-optical Data(AT 20mA)			20mA)	Peak	Viewing Angle 20 1/2(deg)	
Lens Appearance	Color		Vf(V)		lv(mcd)		Wavelength		
Appearance			Тур.	Max.	Тур.	Min.	wavelength	20 1/2(deg)	
	White		3.3	4	1500	900	X/Y=0.31		
	Red		1.95	2.5	1300	700	630		
	Yellow		2.1	2.5	25	12	588	45°	
Water Clear	Green		2.1	2.5	300	100	570		
	Blue		3.3	4	1300	700	470		
	Blue(Green)	В	3.3	4	160	80	470	60°	
	Biue(Green)	G	2.1	2.5	80	30	570	00	

SPECIFICATION

Contact Rating	0.1A, 30V DC
Contact Resistance	50mΩ max. 1.5V DC; 100mA, by Method of Voltage DROP
Insulation Resistance	100M Ω min. 500V DC
Dielectric Strength	500V AC/1 minute
Operating Force	250±100gf
Travel	1.2mm
Operating Life	50, 000 cycles
Operating Temp.	-40°C ~ +85°C

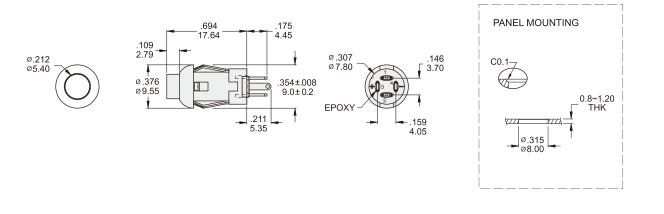
CIRCUIT



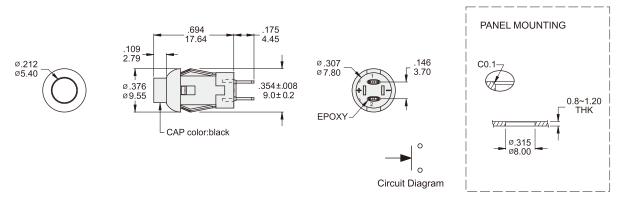
PACKAGE

<Bag> 100 pcs.

ZPBL-XX



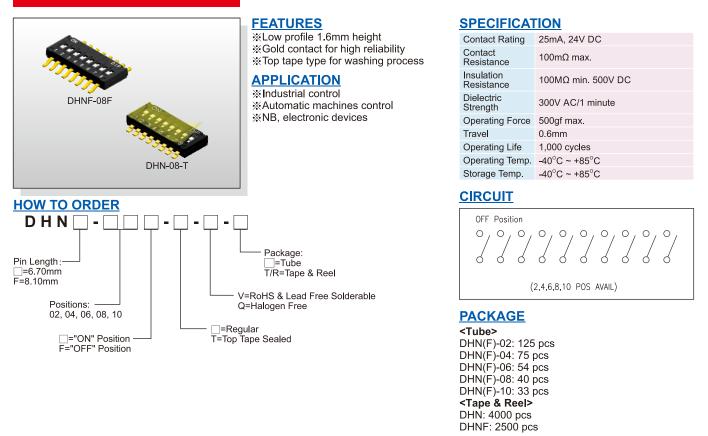
ZPBL-A2



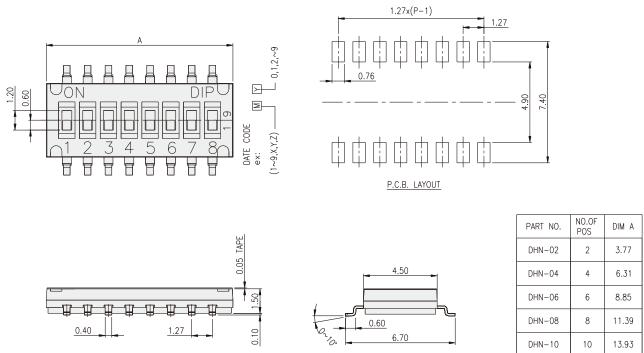


1.6mm Half Pitch Type





DHN



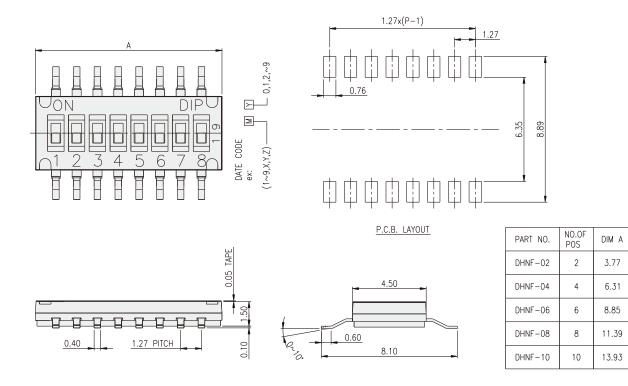
PART NU.	POS	DIM A
DHN-02	2	3.77
DHN-04	4	6.31
DHN-06	6	8.85
DHN-08	8	11.39
DHN-10	10	13.93



1.6mm Half Pitch Type



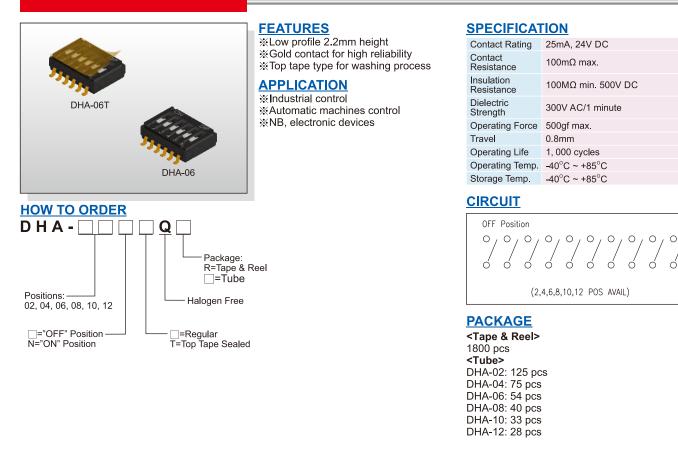
DHNF



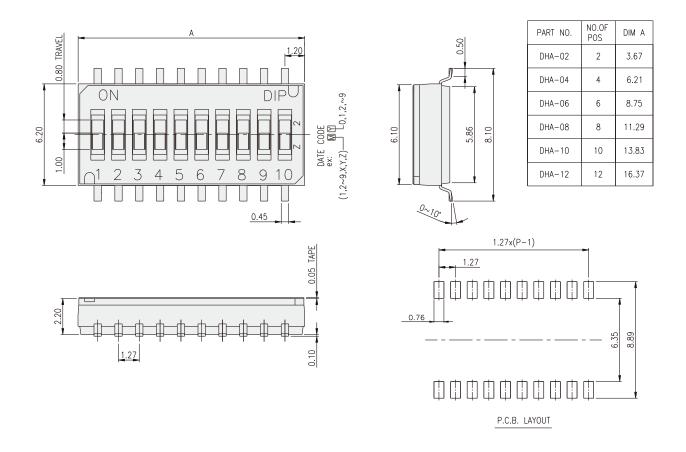
dip switch DHA series

2.2mm Half Pitch Type





DHA



www.dip.com.tw



End Stackable / SMT & Through Hole Type

*Gold contact provides high reliability

%Automatic machines control %Telecommunication

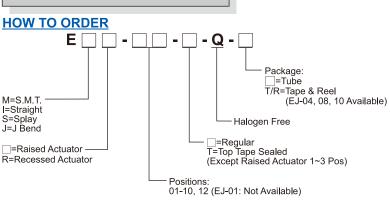
FEATURES

※End stackable ※Through hole or SMT

APPLICATION %Industrial control

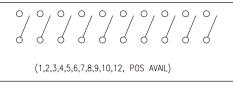


EI-08 EI-08 ES-08 ES-08 EJ-08 EJ-08





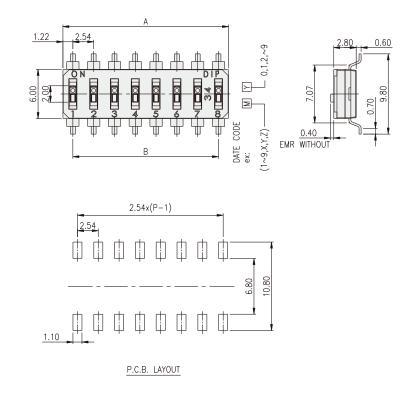
Contact Rating	25mA, 24V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩ min. 500V DC
Dielectric Strength	500V AC/1 minute
Operating Force	1,000gf max.
Travel	1mm
Operating Life	2,000 cycles
Operating Temp.	-20°C ~ +85°C
Storage Temp.	-40°C ~ +85°C



PACKAGE

<tube></tube>
EM(R)/EI(R)/ES(R)-01: 194 pcs
E_(R)-02: 95 pcs
E_(R)-03: 63 pcs
E_(R)-04: 47 pcs
E_(R)-05: 38 pcs
E_(R)-06: 31 pcs
E_(R)-07: 27 pcs
E_(R)-08: 23 pcs
E_(R)-09: 21 pcs
E_(R)-10: 19 pcs
E_(R)-12: 15 pcs
<tape &="" reel=""></tape>
EM(R)-01~10, 12: 900 pcs
EJ(R)-04, 08, 10: 900 pcs

EM(R)



2.75	0~0.15
EM	08.6 02.0 (R)-01

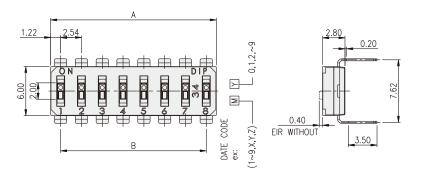
PART NO.	NO.OF POS.	DIM.A	DIM.B
EM(R)-01	1	2.44	
EM(R)-02	2	4.98	2.54
EM(R)-03	3	7.52	5.08
EM(R)-04	4	10.06	7.62
EM(R)-05	5	12.60	10.16
EM(R)-06	6	15.14	12.70
EM(R)-07	7	17.68	15.24
EM(R)-08	8	20.22	17.78
EM(R)-09	9	22.76	20.32
EM(R)-10	10	25.30	22.86
EM(R)-12	12	30.38	27.94

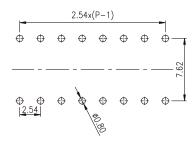


End Stackable / SMT & Through Hole Type



EI(R)

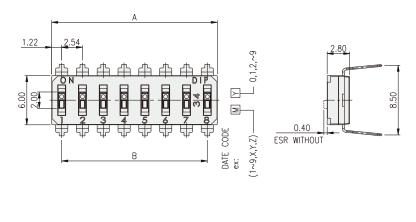


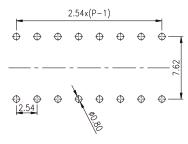


P.C.B. LAYOUT

PART NO. NO.OF POS. DIM.A DIM.B EI(R)-01 1 2.44 / EI(R)-02 2 4.98 2.54 EI(R)-03 3 7.52 5.08 EI(R)-04 4 10.06 7.62 EI(R)-05 5 12.60 10.16 EI(R)-06 6 15.14 12.70 EI(R)-07 7 17.68 15.24 EI(R)-08 8 20.22 17.78 EI(R)-09 9 22.76 20.34				
EI(R)-02 2 4.98 2.54 EI(R)-03 3 7.52 5.08 EI(R)-04 4 10.06 7.62 EI(R)-05 5 12.60 10.16 EI(R)-06 6 15.14 12.70 EI(R)-07 7 17.68 15.24 EI(R)-08 8 20.22 17.78 EI(R)-09 9 22.76 20.32	PART NO.		DIM.A	DIM.B
EI(R)-03 3 7.52 5.08 EI(R)-04 4 10.06 7.62 EI(R)-05 5 12.60 10.16 EI(R)-06 6 15.14 12.70 EI(R)-07 7 17.68 15.24 EI(R)-08 8 20.22 17.78 EI(R)-09 9 22.76 20.32	EI(R)-01	1	2.44	
EI(R)-04 4 10.06 7.62 EI(R)-05 5 12.60 10.16 EI(R)-06 6 15.14 12.70 EI(R)-07 7 17.68 15.24 EI(R)-08 8 20.22 17.78 EI(R)-09 9 22.76 20.32	EI(R)-02	2	4.98	2.54
EI(R)-05 5 12.60 10.16 EI(R)-06 6 15.14 12.70 EI(R)-07 7 17.68 15.24 EI(R)-08 8 20.22 17.78 EI(R)-09 9 22.76 20.32	EI(R)-03	3	7.52	5.08
EI(R)-06 6 15.14 12.70 EI(R)-07 7 17.68 15.24 EI(R)-08 8 20.22 17.78 EI(R)-09 9 22.76 20.32	EI(R)-04	4	10.06	7.62
EI(R)-07 7 17.68 15.24 EI(R)-08 8 20.22 17.78 EI(R)-09 9 22.76 20.32	EI(R)-05	5	12.60	10.16
EI(R)-08 8 20.22 17.78 EI(R)-09 9 22.76 20.32	EI(R)-06	6	15.14	12.70
EI(R)-09 9 22.76 20.32	EI(R)-07	7	17.68	15.24
	EI(R)-08	8	20.22	17.78
EI(D) 10 10 05 70 00.00	EI(R)-09	9	22.76	20.32
EI(R)-10 10 25.30 22.86	EI(R)-10	10	25.30	22.86
EI(R)-12 12 30.38 27.94	EI(R)-12	12	30.38	27.94

ES(R)







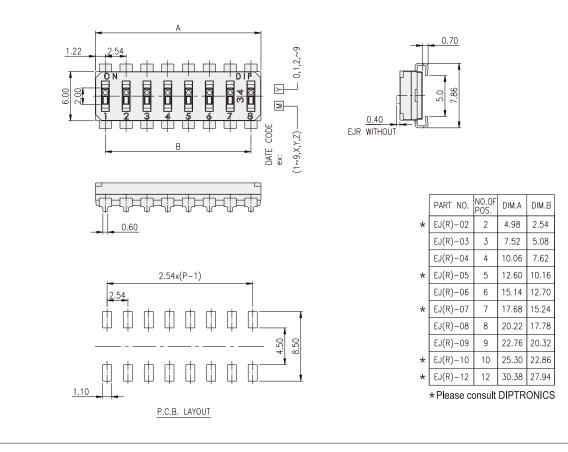
PART NO.	NO.OF POS.	DIM.A	DIM.B
ES(R)-01	1	2.44	
ES(R)-02	2	4.98	2.54
ES(R)-03	3	7.52	5.08
ES(R)-04	4	10.06	7.62
ES(R)-05	5	12.60	10.16
ES(R)-06	6	15.14	12.70
ES(R)-07	7	17.68	15.24
ES(R)-08	8	20.22	17.78
ES(R)-09	9	22.76	20.32
ES(R)-10	10	25.30	22.86
ES(R)-12	12	30.38	27.94



End Stackable / SMT & Through Hole Type



EJ(R)





%Automatic machines control %Telecommunication

> Package: =Tube T/R=Tape & Reel <S.M.T Only>

☐=Regular T=Top Tape Sealed <Recessed Actuator Only>

RoHS & Lead Free Solderable

APPLICATION %Industrial control

- V -

□=Push Down ON F=Push Up ON

-

NPI-08

-

Positions: _____ 02, 04, 06, 08, 10

NPM-08

HOW TO ORDER

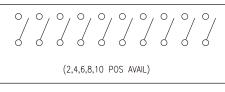
I=Through Hole M=S.M.T.

Raised Actuator — R=Recessed Actuator

NP

Contact Resistance	100mΩ max.
Insulation Resistance	$100M\Omega$ min. $500V$ DC
Dielectric Strength	500V AC/1 minute
Operating Force	800gf max.
Travel	1mm
Operating Life	2, 000 cycles
Operating Temp.	-20°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

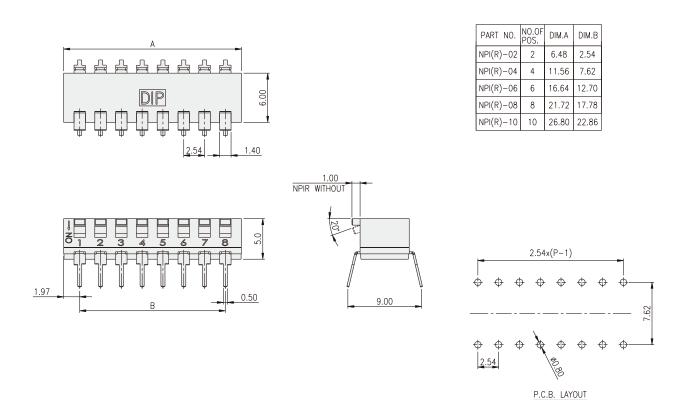
CIRCUIT



PACKAGE

<Tube> NPI(R)/NPM(R)-02: 70 pcs NPI(R)/NPM(R)-04: 40 pcs NPI(R)/NPM(R)-06: 28 pcs NPI(R)/NPM(R)-08: 20 pcs NPI(R)/NPM(R)-10: 16 pcs <Tape & Reel> NPM(R)-02, 04, 06, 08, 10: 700 pcs

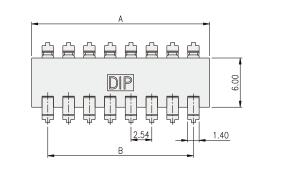
NPI



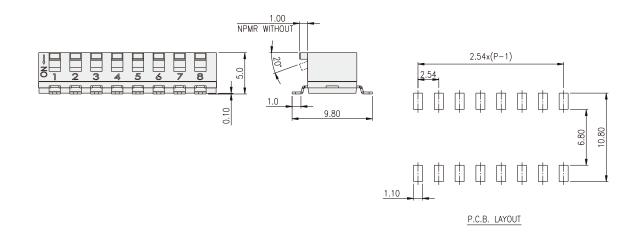




NPM



PART NO. NO.OF POS. DIM.A DIM.B NPM(R)-02 2 6.48 2.54 NPM(R)-04 4 11.56 7.62 NPM(R)-06 6 16.64 12.70 NPM(R)-08 8 21.72 17.78 NPM(R)-10 10 26.80 22.86				
NPM(R)-04 4 11.56 7.62 NPM(R)-06 6 16.64 12.70 NPM(R)-08 8 21.72 17.78	PART NO.		DIM.A	DIM.B
NPM(R)-06 6 16.64 12.70 NPM(R)-08 8 21.72 17.78	NPM(R)-02	2	6.48	2.54
NPM(R)-08 8 21.72 17.78	NPM(R)-04	4	11.56	7.62
	NPM(R)-06	6	16.64	12.70
NPM(R)-10 10 26.80 22.86	NPM(R)-08	8	21.72	17.78
	NPM(R)-10	10	26.80	22.86





EPM-08

HOW TO ORDER E P

I=Through Hole -M=S.M.T.

=Raised Actuator

R=Recessed Actuator

EPI-08

- |

Positions: ______ 02, 04, 06, 08, 10

End Stackable Piano Type





- V -

=Push Down ON F=Push Up ON

-

℁Side actuation %End stackable %Through hole or SMT

APPLICATION

℁Industrial control *Automatic machines control *Telecommunication

> Package: _=Tube T/R=Tape & Reel <S.M.T Only>

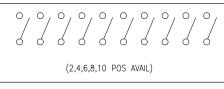
□=Regular T=Top Tape Sealed <Recessed Actuator Only>

RoHS & Lead Free Solderable

SPECIFICATION

Contact Rating	25mA, 24V DC
Contact Resistance	100mΩ max.
Insulation Resistance	$100M\Omega$ min. 500V DC
Dielectric Strength	500V AC/1 minute
Operating Force	800gf max.
Travel	1mm
Operating Life	2, 000 cycles
Operating Temp.	-20°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

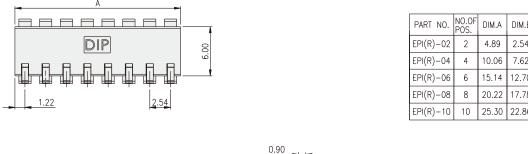
CIRCUIT

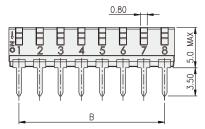


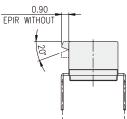
PACKAGE

<Tube> EP (R)-02: 95 pcs EP (R)-04: 47 pcs EP (R)-04: 47 pcs EP (R)-06: 31 pcs EP (R)-08: 23 pcs EP (R)-10: 18 pcs <Tape & Reel> EPM(R): 700 pcs

EPI(R)

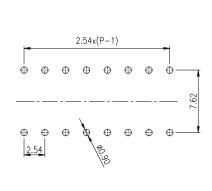






7.62

PART NO.	NO.OF POS.	DIM.A	DIM.B
EPI(R)-02	2	4.89	2.54
EPI(R)-04	4	10.06	7.62
EPI(R)-06	6	15.14	12.70
EPI(R)-08	8	20.22	17.78
EPI(R)-10	10	25.30	22.86



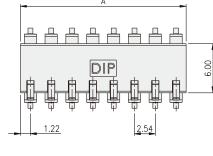
P.C.B. LAYOUT

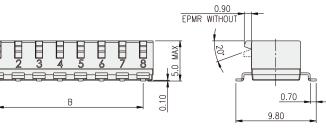


End Stackable Piano Type

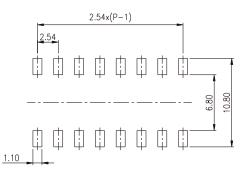


EPM(R)



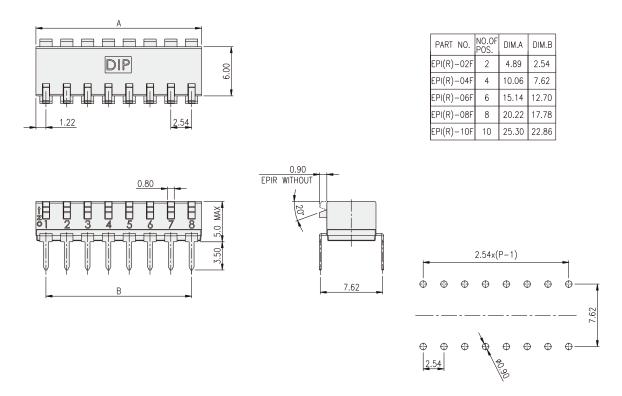


PART NO.	NO.OF POS.	DIM.A	DIM.B
EPM(R)-02	2	4.89	2.54
EPM(R)-04	4	10.06	7.62
EPM(R)-06	6	15.14	12.70
EPM(R)-08	8	20.22	17.78
EPM(R)-10	10	25.30	22.86



P.C.B. LAYOUT

EPI(R)-F





DLR-08-T

] = []

DJR-08-T

| - |

- V -

Positions: 01-10, 12 (DJ-01: Not Available)

DMR-08

HOW TO ORDER

M=S.M.T. J=J Bend

=Raised Actuator

R=Recessed Actuator

L=S.M.T. Flat

D

SMT Type





%Low profile for space saving%Gold contact for high reliability%Top tape type for washing process

APPLICATION

Package:

□=Regular T=Top Tape Sealed <Recessed Actuator Only>

T/R=Tape & Reel

RoHS & Lead Free Solderable

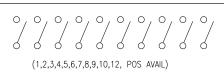
(DL Type Not Available Bag Only)

%Industrial control%Automatic machines control%Telecommunication

SPECIFICATION

Contact Rating	25mA, 24V DC
Contact Resistance	50mΩ max.
Insulation Resistance	$100M\Omega$ min. 500V DC
Dielectric Strength	500V AC/1 minute
Operating Force	1,000gf max.
Travel	1mm
Operating Life	2, 000 cycles
Operating Temp.	-20°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

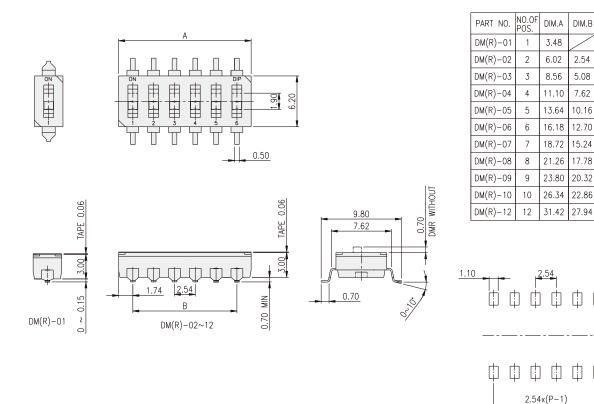
<u>CIRCUIT</u>



PACKAGE

<Tube> DM(R), DJ(R): 01: 130 pcs 02: 76 pcs 03: 55 pcs 04: 42 pcs 05: 35 pcs 06: 28 pcs 07: 25 pcs 08: 22 pcs 09: 20 pcs 10: 18 pcs 12: 15 pcs <Tape & Reel> DM(R)-01: 800 pcs DMR-02~DMR-12: 900 pcs DM-(01)(05)(07): 800 pcs DM-(02)(03)(04)(06)(08)(09)(10)(12): 700 pcs DJR-(02)(03)(04)(08)(09)(10): 1000 pcs <Bag> DL(R): 1000 pcs

DM(R)



DIP SWITCH

7.40

ſ

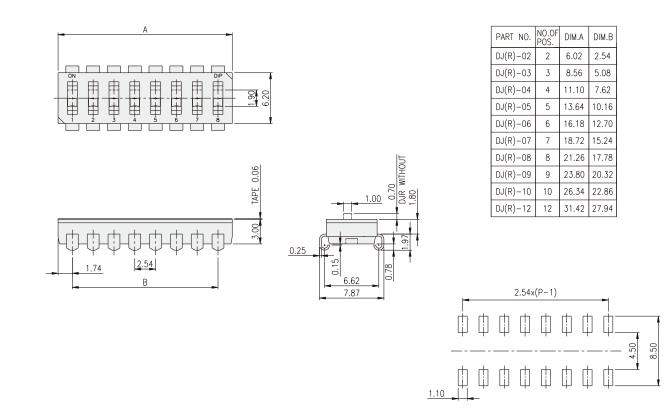
П

P.C.B. LAYOUT





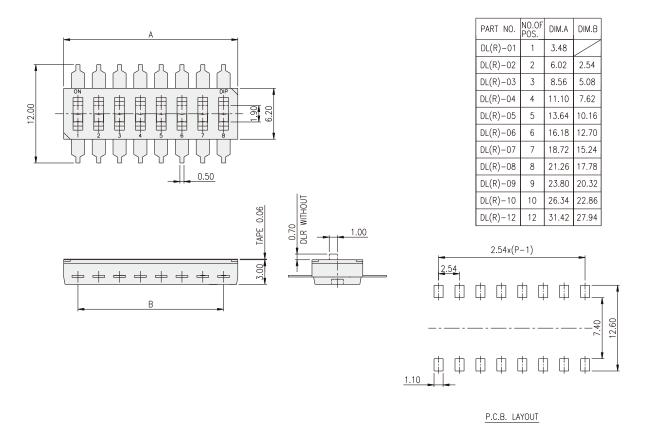
DJ(R)



SMT Type

P.C.B. LAYOUT

DL(R)



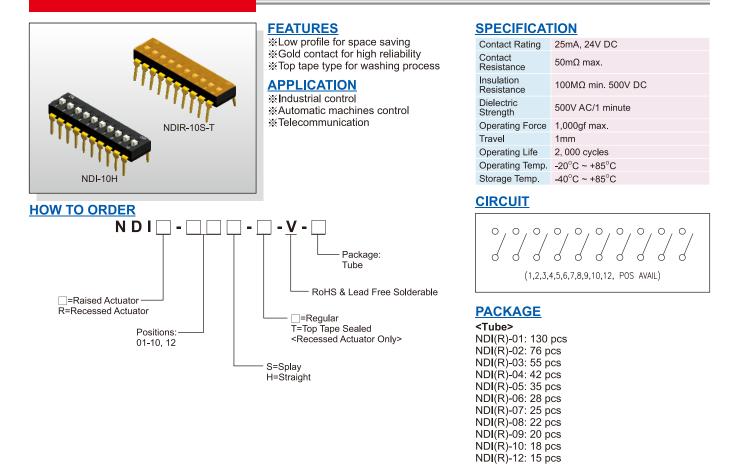
B-12 DIPTRONICS

DIP SWITCH NDI SERIES

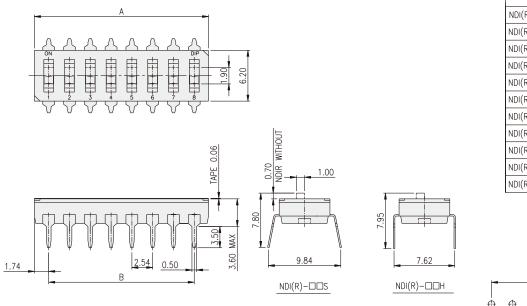
Through Hole Type



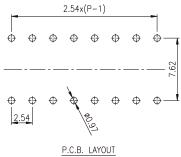
DIP SWITCH



NDI(R)



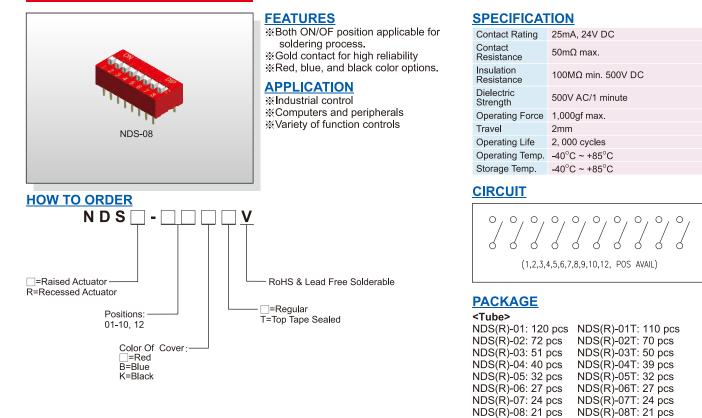
PART NO.	NO.OF POS.	DIM.A	DIM.B
NDI(R)-01	1	3.48	
NDI(R)-02	2	6.02	2.54
NDI(R)-03	3	8.56	5.08
NDI(R)-04	4	11.10	7.62
NDI(R)-05	5	13.64	10.16
NDI(R)-06	6	16.18	12.70
NDI(R)-07	7	18.72	15.24
NDI(R)-08	8	21.26	17.78
NDI(R)-09	9	23.80	20.32
NDI(R)-10	10	26.34	22.86
NDI(R)-12	12	31.42	27.94



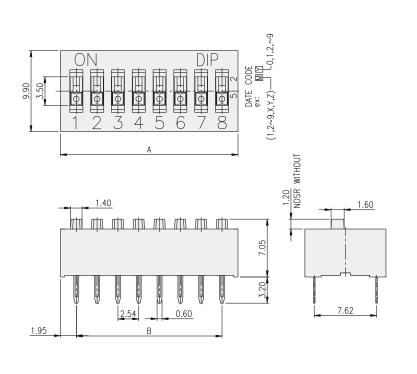


Slide Type





NDS(R)

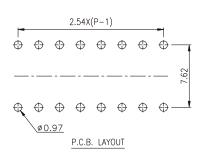


PART NO.	NO.OF POS.	DIM.A	DIM.B
NDS(R)-01	1	3.90	
NDS(R)-02	2	6.44	2.54
NDS(R)-03	3	8.98	5.08
NDS(R)-04	4	11.52	7.62
NDS(R)-05	5	14.06	10.16
NDS(R)-06	6	16.60	12.70
NDS(R)-07	7	19.14	15.24
NDS(R)-08	8	21.68	17.78
NDS(R)-09	9	24.22	20.32
NDS(R)-10	10	26.76	22.86
NDS(R)-12	12	31.84	27.94

NDS(R)-09T: 19 pcs NDS(R)-10T: 17 pcs NDS(R)-12T: 14 pcs

NDS(R)-09: 19 pcs

NDS(R)-10: 17 pcs NDS(R)-12: 14 pcs

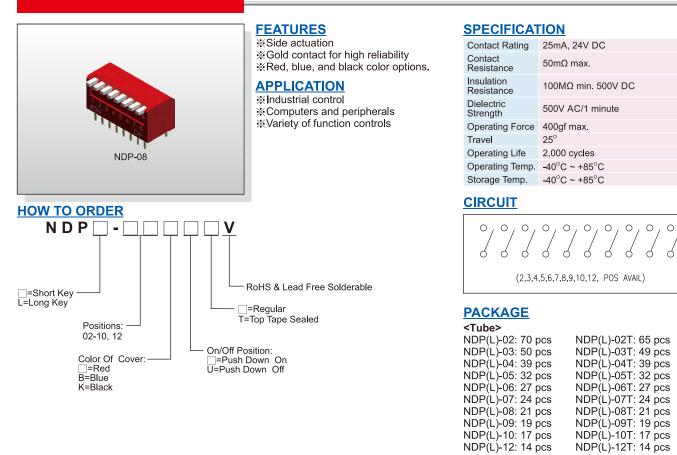


B-14 DIPTRONICS

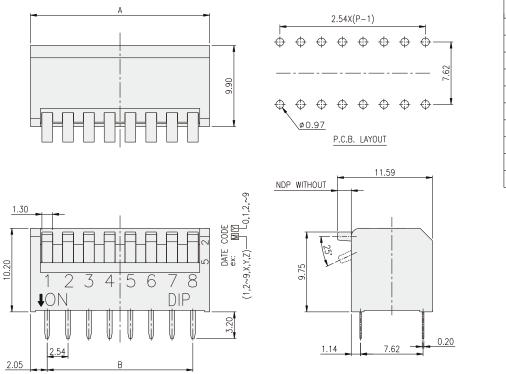
DIP SWITCH NDP SERIES

SPST Standard Piano Type





NDP(L)



PART NO.	NO.OF POS.	DIM.A	DIM.B
NDP(L)-02	2	6.64	2.54
NDP(L)-03	3	9.18	5.08
NDP(L)-04	4	11.72	7.62
NDP(L)-05	5	14.26	10.16
NDP(L)-06	6	16.80	12.70
NDP(L)-07	7	19.34	15.24
NDP(L)-08	8	21.88	17.78
NDP(L)-09	9	24.42	20.32
NDP(L)-10	10	26.96	22.86
NDP(L)-12	12	32.04	27.94

DIP SWITCH NDA series

HOW TO ORDER N D A -

> Positions: 02-10, 12

Color Of Cover:-=Red B=Blue K=Black

NDA-08

V

Right Angle Type



FEATURES

RoHS & Lead Free Solderable

□=Regular T=Top Tape Sealed

ide actuation ⅔ *Gold contact for high reliability

APPLICATION

XIndustrial control *Computers and peripherals XVariety of function controls

SPECIFICATION

Contact Rating	25mA, 24V DC
Contact Resistance	50mΩ max.
Insulation Resistance	100MΩ min. 500V DC
Dielectric Strength	500V AC/1 minute
Operating Force	1,000gf max.
Travel	2mm
Operating Life	2, 000 cycles
Operating Temp.	-40°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

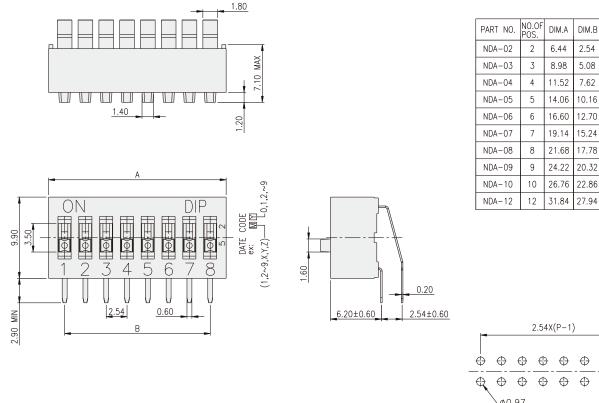
CIRCUIT

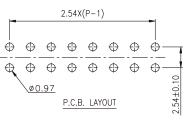
(2,3,4,5,6,7,8,9,10,12,	POS AVAIL)

PACKAGE

<tube></tube>	
NDA-02: 73pcs	NDA-02T: 70 pcs
NDA-03: 52pcs	NDA-03T: 50 pcs
NDA-04: 40pcs	NDA-04T: 39 pcs
NDA-05: 33pcs	NDA-05T: 32 pcs
NDA-06: 28pcs	NDA-06T: 28 pcs
NDA-07: 24pcs	NDA-07T: 24 pcs
NDA-08: 21pcs	NDA-08T: 21 pcs
NDA-09: 19pcs	NDA-09T: 19 pcs
NDA-10: 17pcs	NDA-10T: 17 pcs
NDA-12: 14pcs	NDA-12T: 14 pcs

NDA





DIP SWITCH SIP SERIES

SIP-08T

SIP- - V-

HOW TO ORDER

Positions: _____ 02, 04, 06, 08, 10

> T=Straight — A=Right Angle

Single In Line Package Type



FEATURES

 Single In-line Packaging saves PCB space
 Available in vertical or right angle models

APPLICATION

SIP-04A

Package:

RoHS & Lead Free Solderable

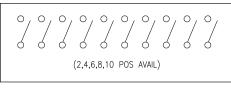
Tube

%Industrial control%Computers and peripherals%Variety of function controls

SPECIFICATION

Contact Rating	10mA, 5V DC
Contact Resistance	100mΩ max.
Insulation Resistance	$100M\Omega$ min. $500V$ DC
Dielectric Strength	300V AC/1 minute
Operating Force	800gf max.
Operating Life	500 cycles
Operating Temp.	-30°C ~ +80°C
Storage Temp.	-30°C ~ +80°C

CIRCUIT

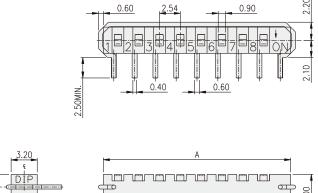


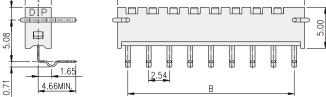
PACKAGE

<tube></tube>		
SIP-02A: 56 pcs	SIP-02T:	61 pcs
SIP-04A: 35 pcs	SIP-04T:	37 pcs
SIP-06A: 25 pcs	SIP-06T:	26 pcs
SIP-08A: 20 pcs	SIP-08T:	20 pcs
SIP-10A: 16 pcs	SIP-10T:	17 pcs

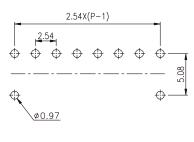
SIP-A

.55





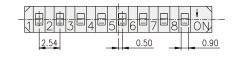
PART NO.	NO.OF POS.	DIM.A	DIM.B	
SIP-02	2	7.62	5.08	
SIP-04	4	12.70	10.16	
SIP-06	6	17.78	15.24	
SIP-08	8	22.86	20.32	
SIP-10	10	27.94	25.40	

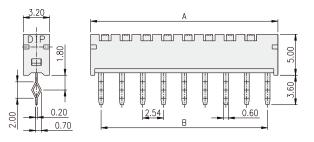


P.C.B. LAYOUT

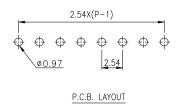


SIP-T

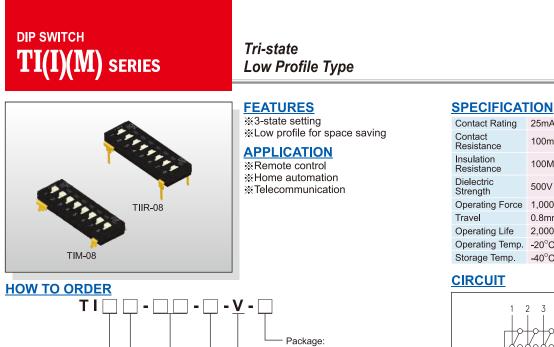




PART NO.	NO.OF POS.	DIM.A	DIM.B	
SIP-02	2	7.62	5.08	
SIP-04	4	12.70	10.16	
SIP-06	6	17.78	15.24	
SIP-08	8	22.86	20.32	
SIP-10	10	27.94	25.40	



DIP SWITCH



__=Regular

□=Tube T/R=Tape & Reel

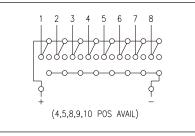
RoHS & Lead Free Solderable

T=Top Tape Sealed <Recessed Actuator Only>

(SMT Only)



Contact Rating	25mA, 24V DC
Contact Resistance	100mΩ max.
nsulation Resistance	$100M\Omega$ min. 500V DC
Dielectric Strength	500V AC/1 minute
Operating Force	1,000gf max.
ravel	0.8mm
Operating Life	2,000 cycles
Operating Temp.	-20°C ~ +85°C
storage Temp.	-40°C ~ +85°C



PACKAGE

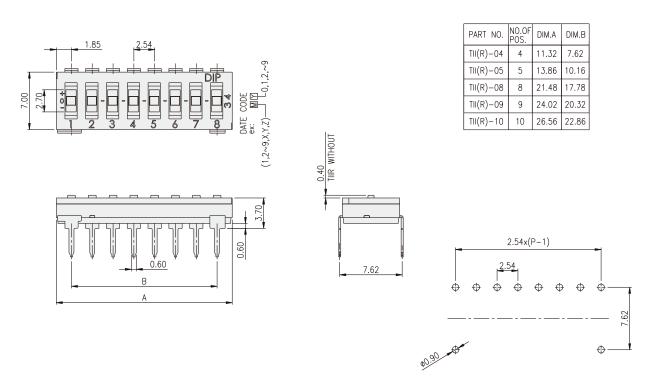
<Tube> TII(R)/TIM(R)-04: 41 pcs TII(R)/TIM(R)-05: 34 pcs TII(R)/TIM(R)-08: 22 pcs TII(R)/TIM(R)-09: 20 pcs TII(R)/TIM(R)-09: 20 pcs TII(R)/TIM(R)-10: 18 pcs <Tape & Reel> TIM(R): 900 pcs

TII(R)

I=Through Hole M=S.M.T.

=Raised Actuator R=Recessed Actuator

Positions: _____ 04, 05, 08, 09, 10



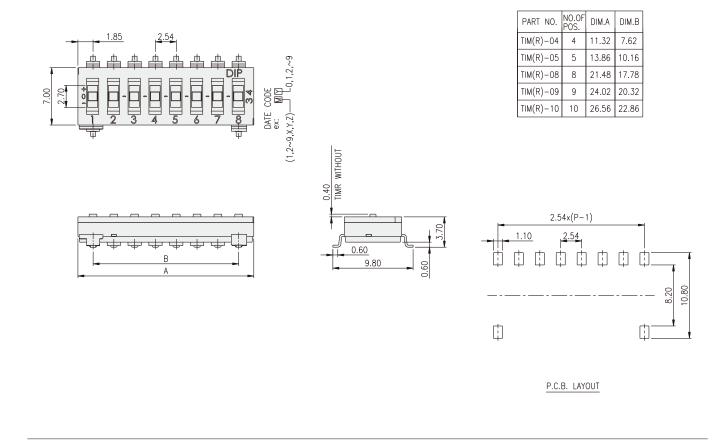
P.C.B. LAYOUT



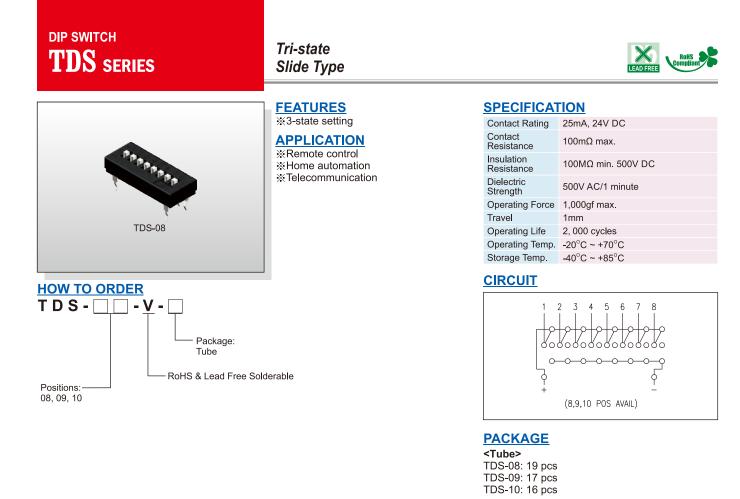
Tri-state Low Profile Type



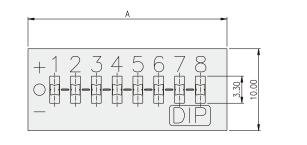
TIM(R)

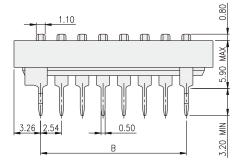


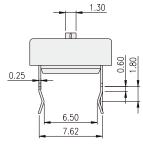
B-20 DIPTRONICS



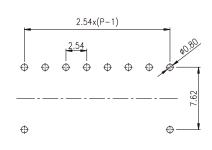
TDS







PART NO.	NO.OF POS.	DIM.A	DIM.B
TDS-08	8	24.30	17.78
TDS-09	9	26.84	20.32
TDS-10	10	29.38	22.86



P.C.B. LAYOUT

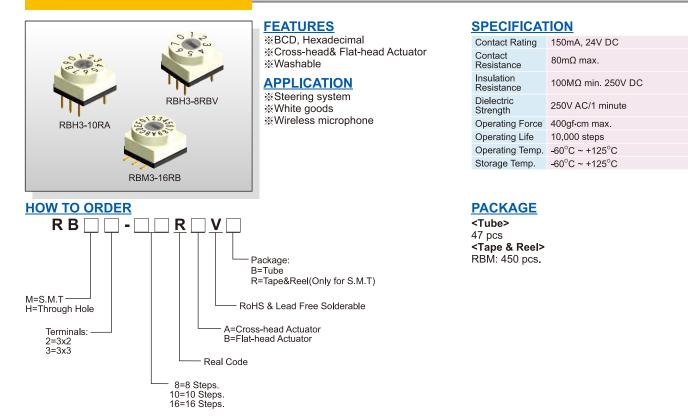
DIP SWITCH

ROTARY CODED SWITCH

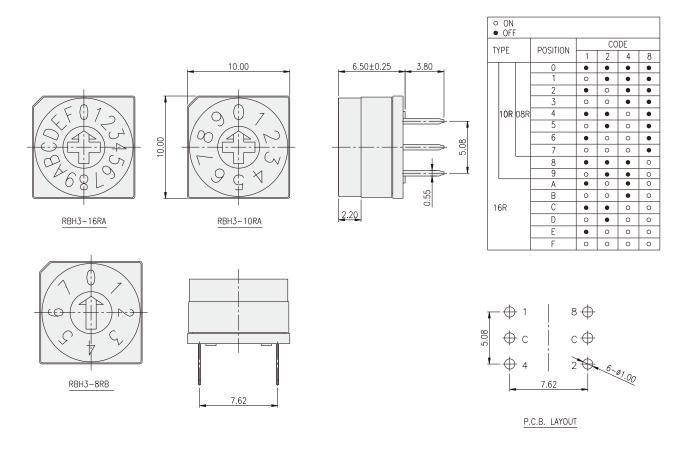
RB series

10x10mm Rotary Coded Type





RBH3-

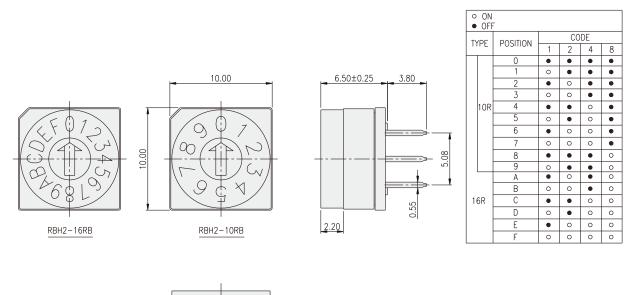


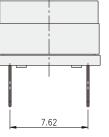
C-01 DIPTRONICS

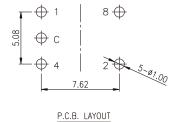
10x10mm Rotary Coded Type



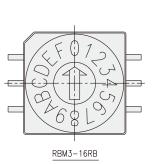
RBH2-

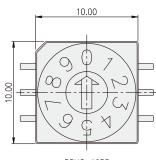




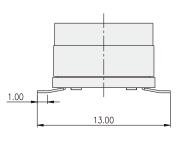


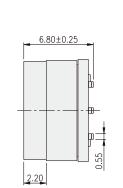
RBM3-

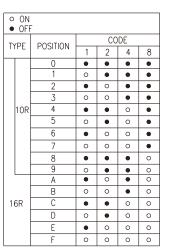


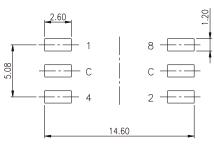


RBM3-10RB









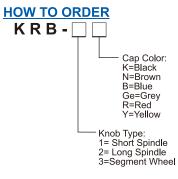
P.C.B. LAYOUT



Cap Accessories for RB

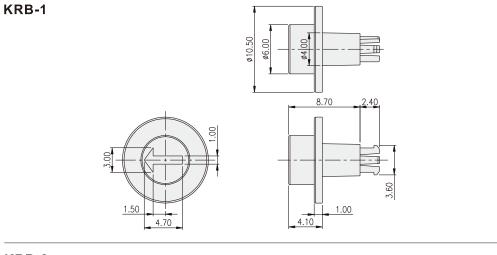






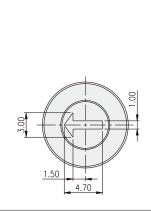
PACKAGE

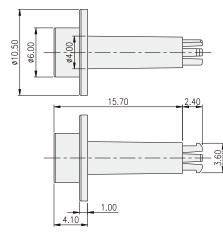
<Bag> KRB-1, KRB-2: 500 pcs. KRB-3: 1000 pcs.



PART NO.	COLOR
KRB-1K	BLACK
KRB-1N	BROWN
KRB-1R	RED
KRB-1B	BLUE
KRB-1Y	YELLOW
KRB-1Ge	GREY

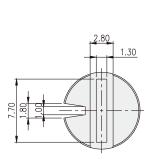
KRB-2

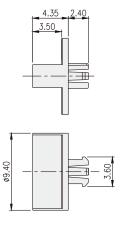




PART NO.	COLOR
KRB-2K	BLACK
KRB-2N	BROWN
KRB-2R	RED
KRB-2B	BLUE
KRB-2Y	YELLOW
KRB-2Ge	GREY

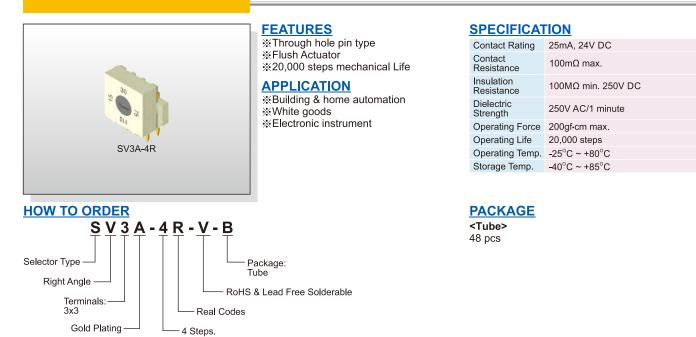
KRB-3



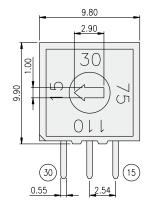


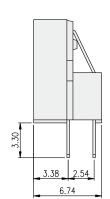
PART NO.	COLOR
KRB-3K	BLACK
KRB-3N	BROWN
KRB-3R	RED
KRB-3B	BLUE
KRB-3Y	YELLO₩
KRB-3Ge	GREY





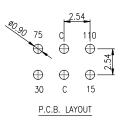
SV3A-4





Ţ	75

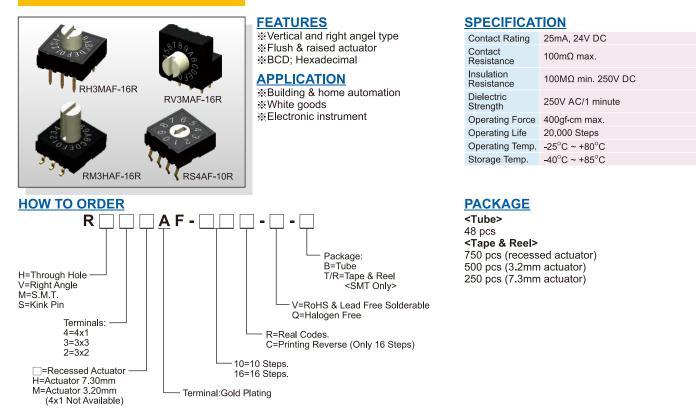
O ON ● OFF					
POSITION		CODE			
	15	30	75	110	
15	0		•		
30		0	٠		
75			0		
110			۲	0	





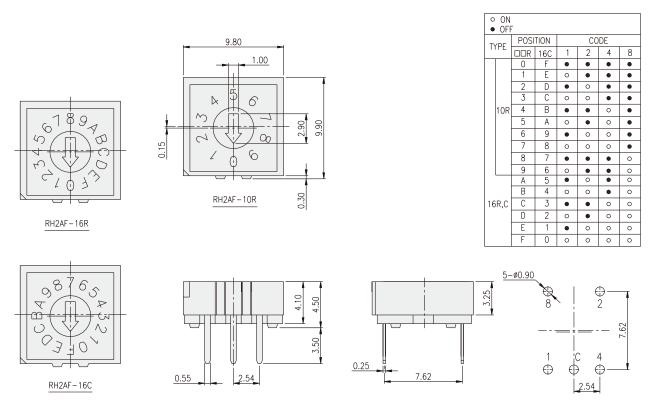
10x10mm Rotary Type





RH2

ROTARY CODED SWITCH



P.C.B. LAYOUT

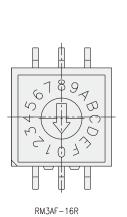
C-05 DIPTRONICS

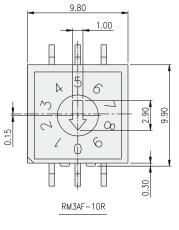


10x10mm Rotary Type

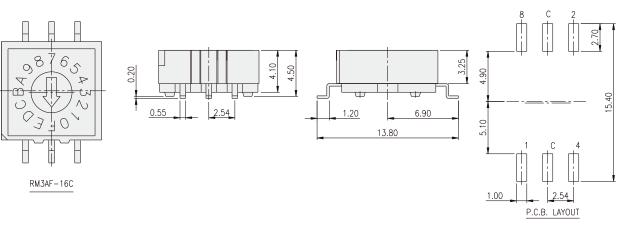


RM3

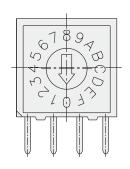




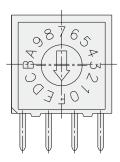
○ ON ● OFF POSITION CODE TYPE DDR 16C 2 4 8 1 0 • ٠ . ۰ 0 • ٠ • D C • ٠ 0 ٠ 0 0 • • В 10R 4 • . 0 • 5 А • 0 0 • 6 9 • 0 0 • 8 0 0 0 ٠ 8 7 ٠ ٠ • 0 9 6 5 0 0 • • A ٠ В 4 0 0 • 0 16R,C С 3 • • 0 0 D 2 0 0 0 ۰ 1 0 0 0 F ٠ 0 0 0 F 0 0



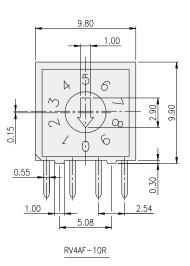
RV4



RV4AF-16R

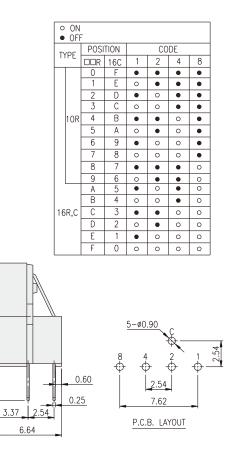


RV4AF-16C



4.90

3.30

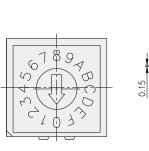


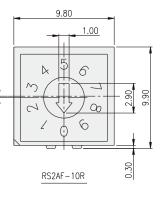


10x10mm Rotary Type

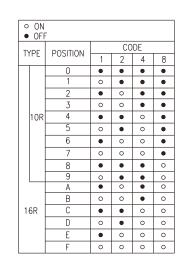


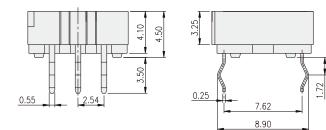
RS2

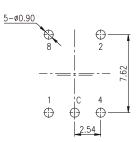




RS2AF-16R







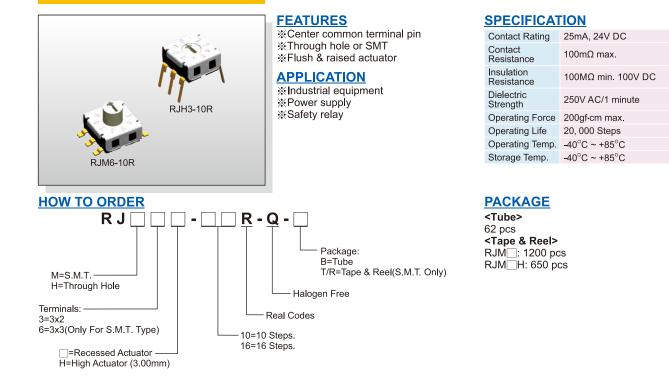
P.C.B. LAYOUT

ROTARY CODED SWITCH

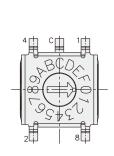
C-07 DIPTRONICS

7x7mm Rotary Type

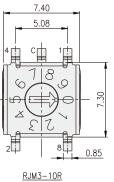




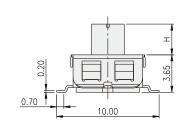
RJM3



<u>RJM3-16R</u>







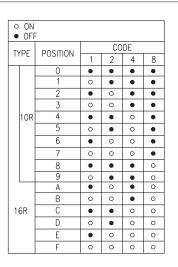
 PART NO.
 H

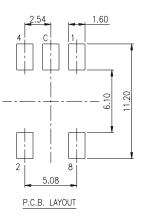
 RJM3-10R
 0

 RJM3-16R
 0

 RJM3H-10R
 3.00

 RJM3H-16R
 3.00







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ON● OFF

TYPE

10R

16R

POSITION

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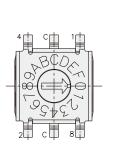
6

7

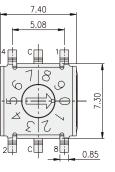
8 9

А

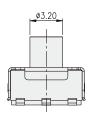
RJM6

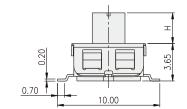


<u>RJM6-16R</u>



<u>RJM6-10R</u>





PART NO.

RJM6-10R

RJM6-16R

RJM6H-10R

RJM6H-16R

9.35

PART NO.

RJH3-10R

RJH3-16R RJH3H-10R

RJH3H-16R

Н

0

3.00

Н

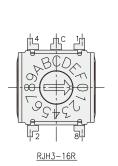
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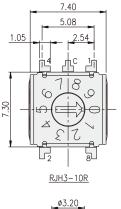
3.00

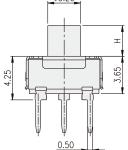
5.08

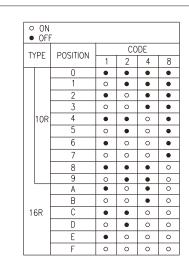
P.C.B. LAYOUT

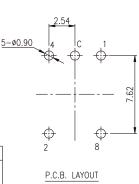
RJH3







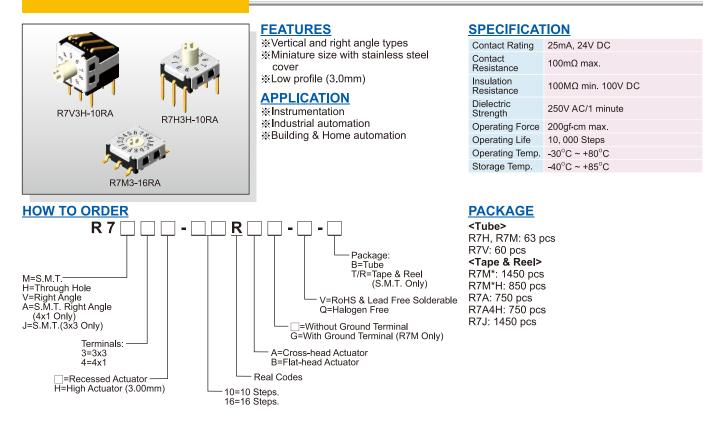




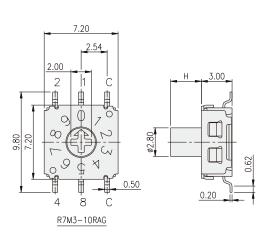


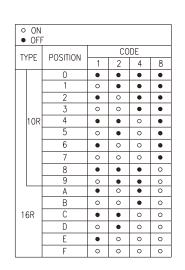
7x7mm Rotary Type

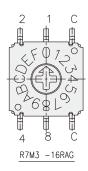




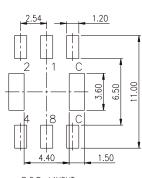
R7M3 - RAG







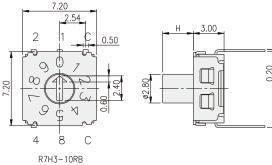
PART NO.	Н
R7M3-10RAG	0
R7M3-16RAG	0
R7M3H-10RAG	3.00
R7M3H-16RAG	5.00

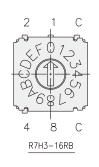


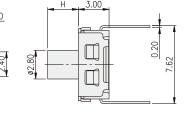
7x7mm Rotary Type

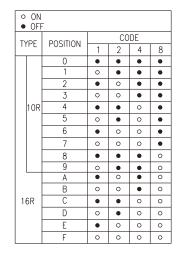
Halogen Free Compliant



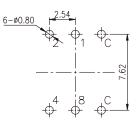








PART NO.	н
R7H3-10RB	0
R7H3-16RB	
R7H3H-10RB	3.00
R7H3H-16RB	3.00



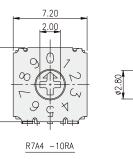
P.C.B. LAYOUT

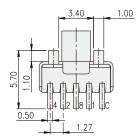
R7A4

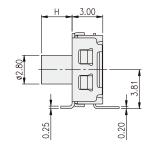


7.20

R7A4 -16RA







PART NO.

R7A4-10RA

R7A4-16RA

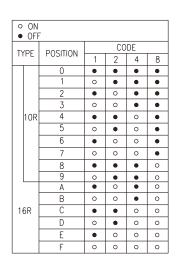
R7A4H-10RA

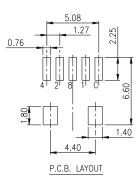
R7A4H-16RA

Н

0

3.00

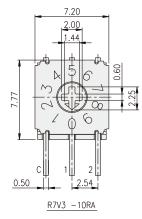


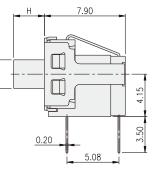


7x7mm Rotary Type

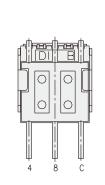


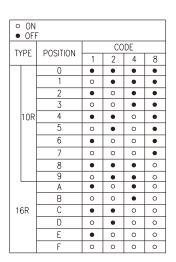
R7V3

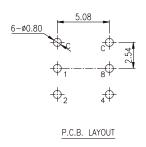




2.80

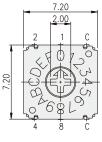






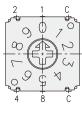
<u>R7V3 -16RA</u>

R7J3



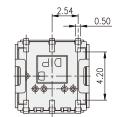
2.80

<u>R7J3-16RA</u>



R7J3-10RA

┝╸╫╺	3.30	0.37	MAX
		7.30	



PART NO.

R7V3-10RA

R7V3-16RA R7V3H-10RA

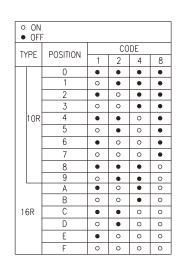
R7V3H-16RA

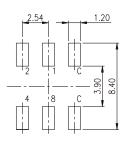
Н

0

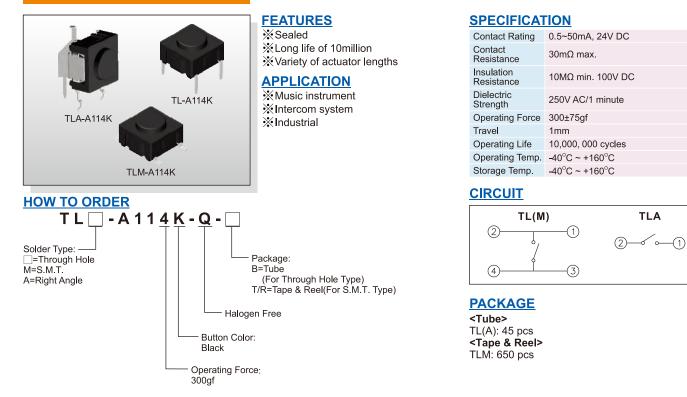
3.00

PART NO.	Н
R7J3-10RA	0
R7J3-16RA	
R7J3H-10RA	3.00
R7J3H-16RA	5.00









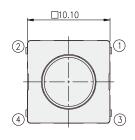
10x10

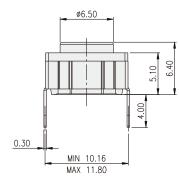
High Reliability

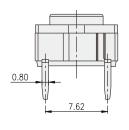
TL-A114K

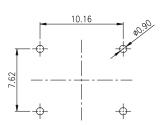
TACT SWITCH

-A1 SERIES









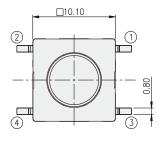
P.C.B. LAYOUT

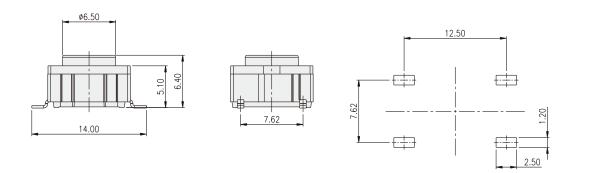






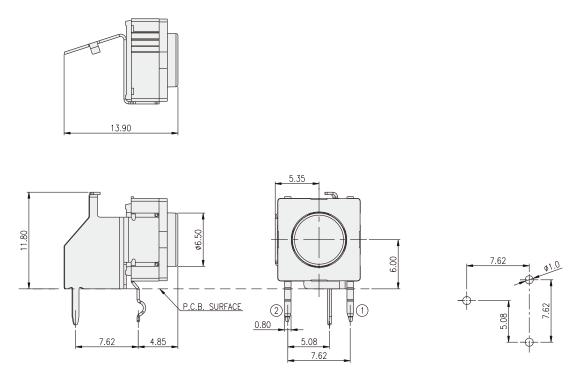
TLM-A114K



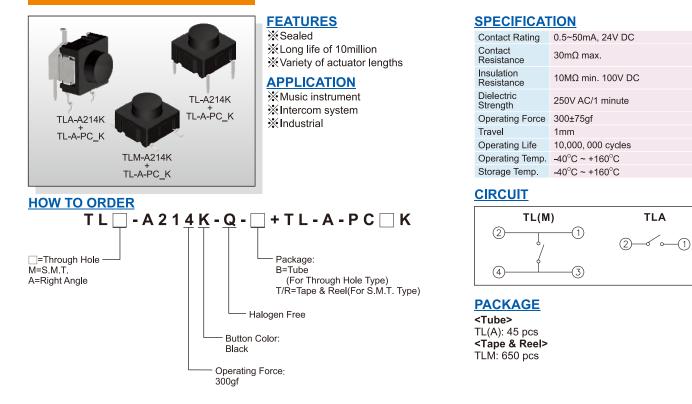


P.C.B. LAYOUT

TLA-A114K







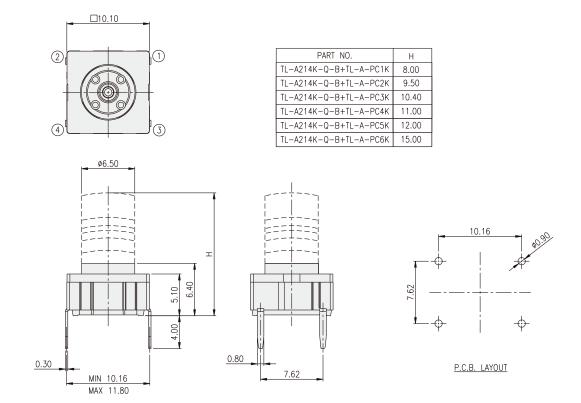
10x10

High Reliability

TL-A214K+TL-A-PC

TACT SWITCH

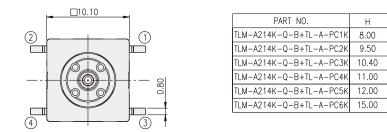
-A2 series

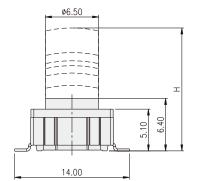


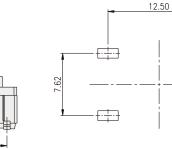




TLM-A214K+TL-A-PC



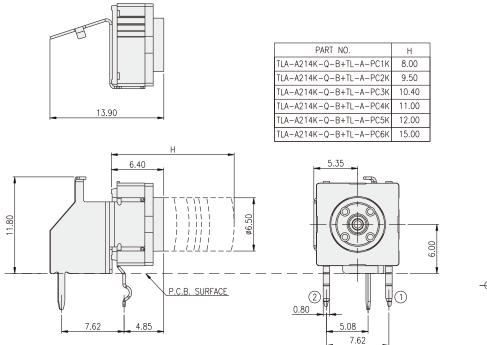




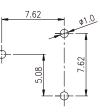
2.50

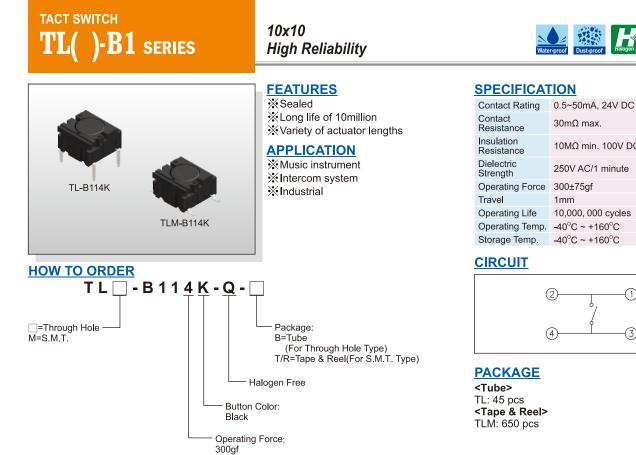
P.C.B. LAYOUT

TLA-A214K+TL-A-PC

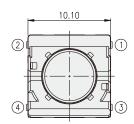


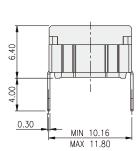
7.62

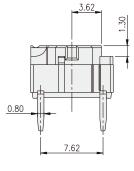


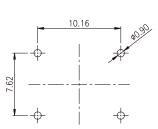


TL-B114K









RoHS Complia

1

(3)

30mΩ max.

1mm

2

(4)

10MΩ min. 100V DC

250V AC/1 minute

10,000, 000 cycles

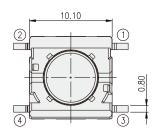


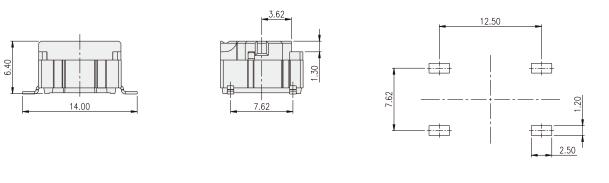






TLM-B114K







FEATURES *Sealed

Long life of 10millionVariety of actuator lengths

APPLICATION Music instrument

XIntercom system

%Industrial



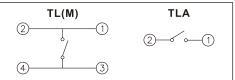
HOW TO ORDER T L - B 3 4 4 K - Q - =Through Hole M=S.M.T. A=Right Angle Halogen Free Button Color: Black

Operating Force: 300gf SPECIFICATION

of Lon IoAnon			
Contact Rating	0.5~50mA, 24V DC		
Contact Resistance	30mΩ max.		
Insulation Resistance	10MΩ min. 100V DC		
Dielectric Strength	250V AC/1 minute		
Operating Force	300±75gf		
Travel	1mm		
Operating Life	10,000, 000 cycles		
Operating Temp.	-40°C ~ +160°C		
Storage Temp.	-40°C ~ +160°C		

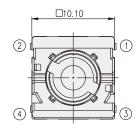
Dust-stroof Dust-stroof

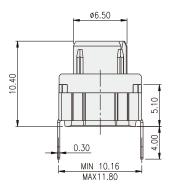
CIRCUIT

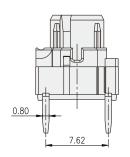


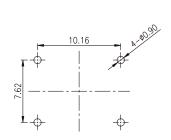
PACKAGE

<Tube> TL(A): 45 pcs <Tape & Reel> TLM: 300 pcs









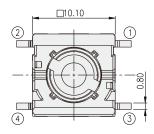
P.C.B. LAYOUT

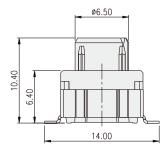
D-07 DIPTRONICS

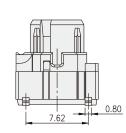


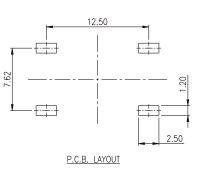


TLM-B344K

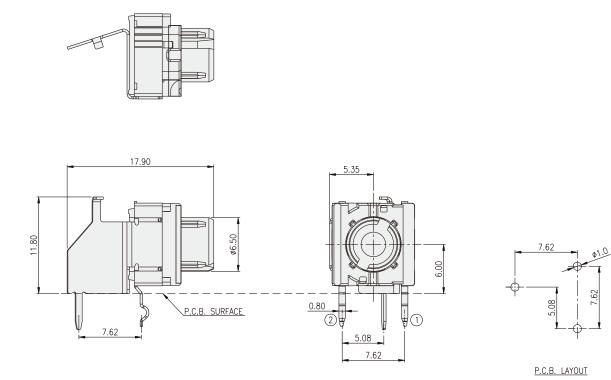








TLA-B344K



TACT SWITCH

TACT SWITCH DTSA-2 SERIES

DTSA-21R

HOW TO ORDER

Dimension H: _____ 1=3.65mm 4=6.45(SQ.)x3.8mm

5=7.85mm

DTSA - 2 - - - V

DTSA-24N

Operating Force: N=Brown, 160gf R=Red, 260gf S=Salmon, 320gf Y=Yellow, 520gf



RoHS & Lead Free Solderable

Phosphor Bronze Dome
 S=Stainless Steel Dome

※High reliable metal contacts※Vertical operation available※Cap options

APPLICATION

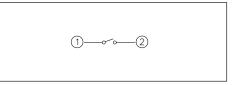
※Audio, OA equipment※Instrumentation※Industrial

SPECIFICATION

Contact Rating	50mA, 12V DC	
Contact Resistance	100mΩ max.	
Insulation Resistance	$100M\Omega$ min. 500V DC	
Dielectric Strength	250V AC/1 minute	
Operating Force	160±50gf, Brown(N) 260±50gf, Red(R) 320±80gf, Salmon(S) 520±130gf, Yellow(Y)	
Travel	0.35mm	
	Phosphor Bronze Dome 100,000 cycles for 520/320/260gf 200,000 cycles for 160gf	
Operating Life	Stainless Steel Dome 300,000 cycles for 520/320gf 500,000 cycles for 260gf 1,000,000 cycles for 160gf	
Operating Temp.	-25°C ~ +70°C	
Storage Temp.	-30°C ~ +80°C	

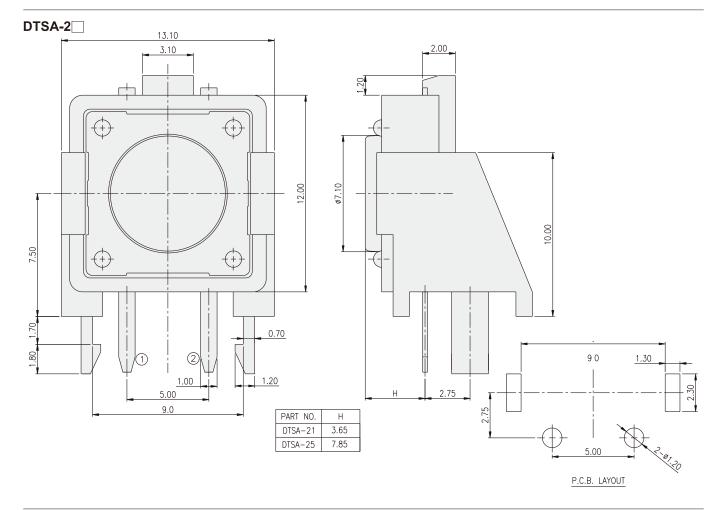
RoHS LEAD FREE

<u>CIRCUIT</u>



PACKAGE

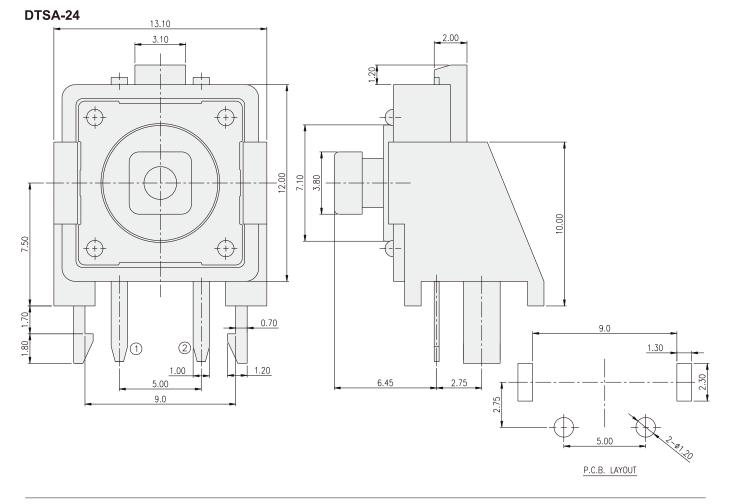
<Bag> 250 pcs



TACT SWITCH	
DTSA-2	SERIES

13.1x14.7 Right Angle Type

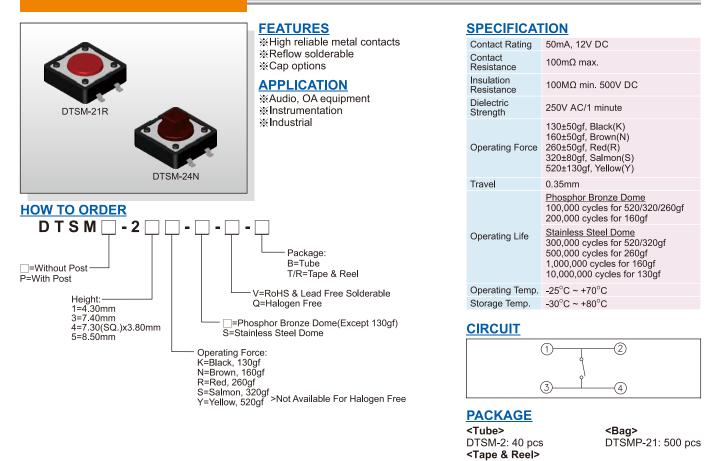




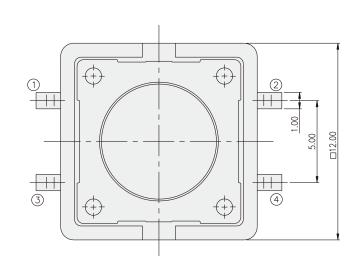
TACT SWITCH DTSM-2 SERIES

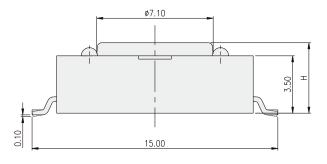
12x12 Surface Mounting Type

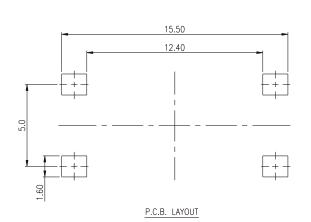




DTSM-2







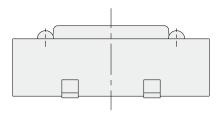
DTSM-21: 700 pcs DTSM(P)-23, 24: 500 pcs DTSM(P)-25: 400 pcs

 PART NO.
 H

 DTSM-21
 4.30

 DTSM-23
 7.40

 DTSM-25
 8.50

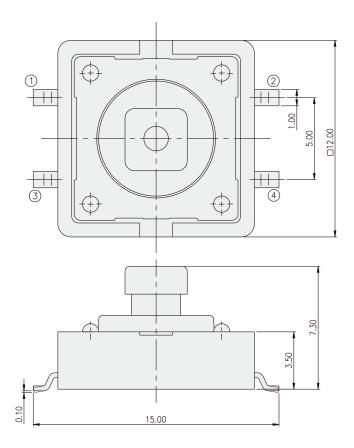


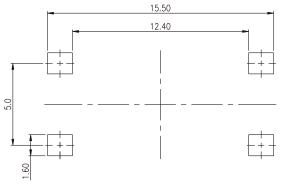


12x12 Surface Mounting Type

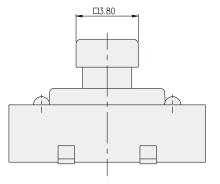


DTSM-24

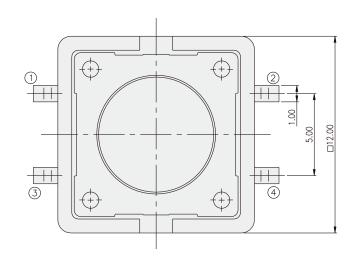


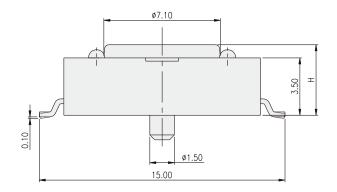


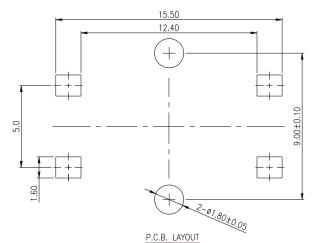
P.C.B. LAYOUT



DTSMP-2





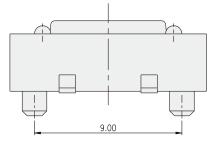


 PART NO.
 H

 DTSMP-21
 4.30

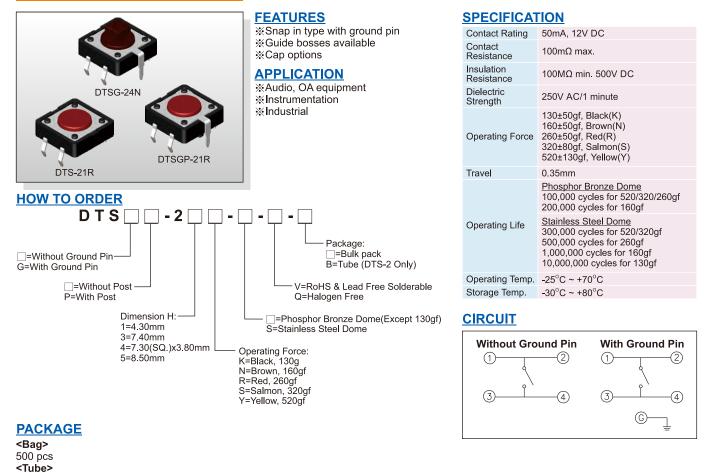
 DTSMP-23
 7.40

 DTSMP-25
 8.50



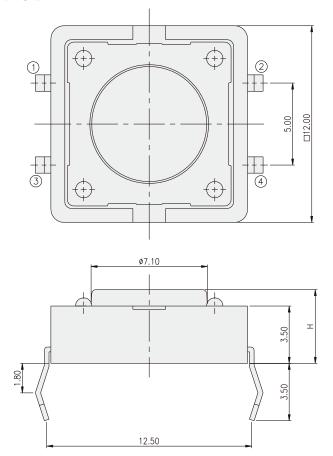


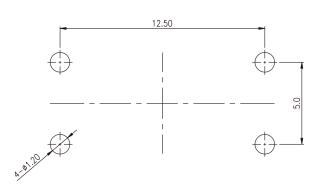




DTS-2

DTS-2: 40 pcs

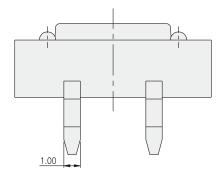






P.C.B. LAYOUT

DTS-25 8.50

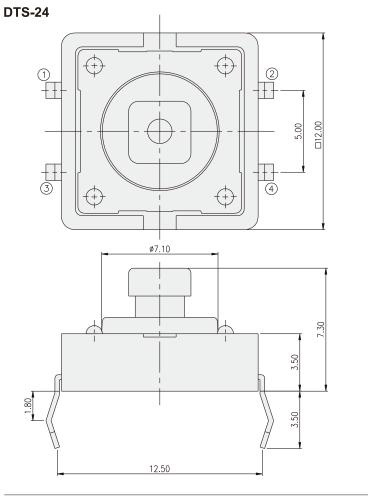


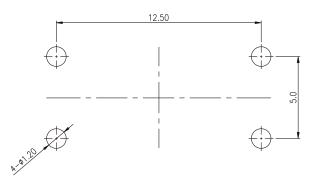
D-13 DIPTRONICS



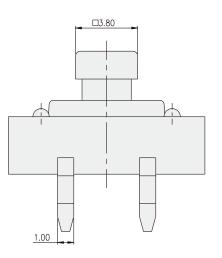
12x12 Through Hole With Ground Terminal Type



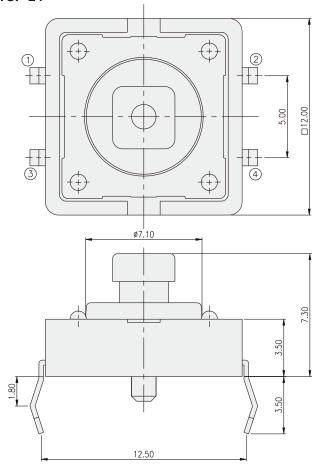


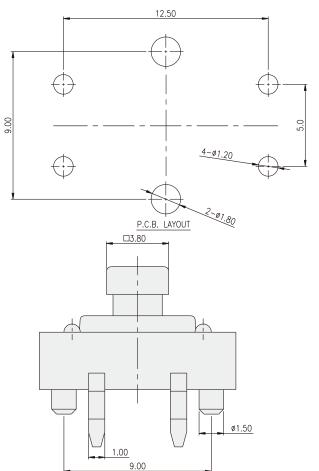








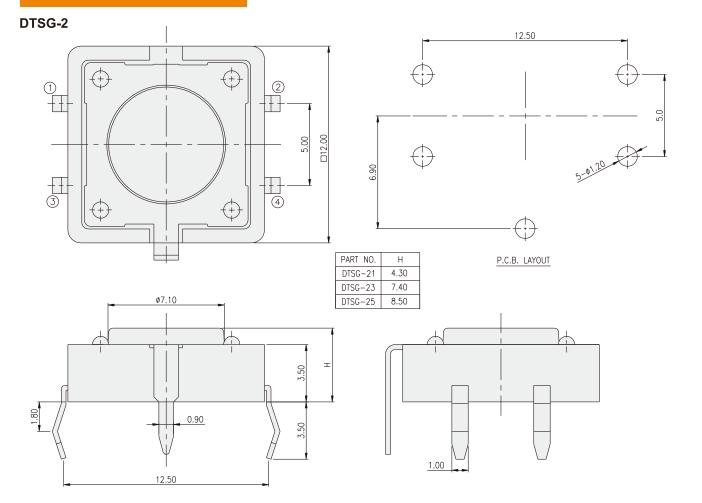


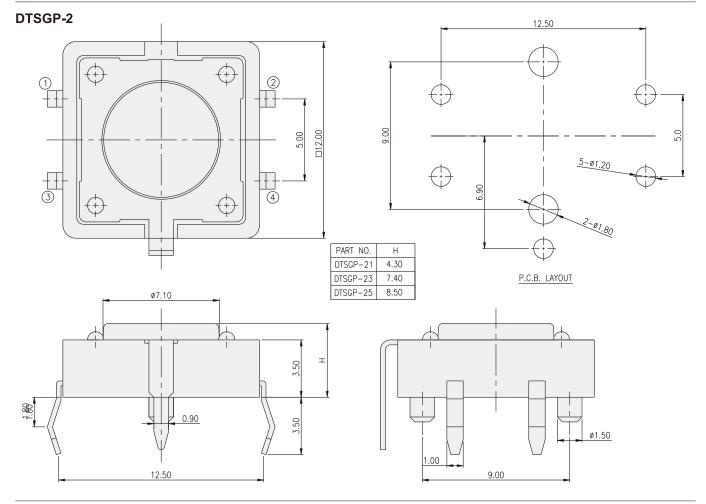




12x12 Through Hole With Ground Terminal Type







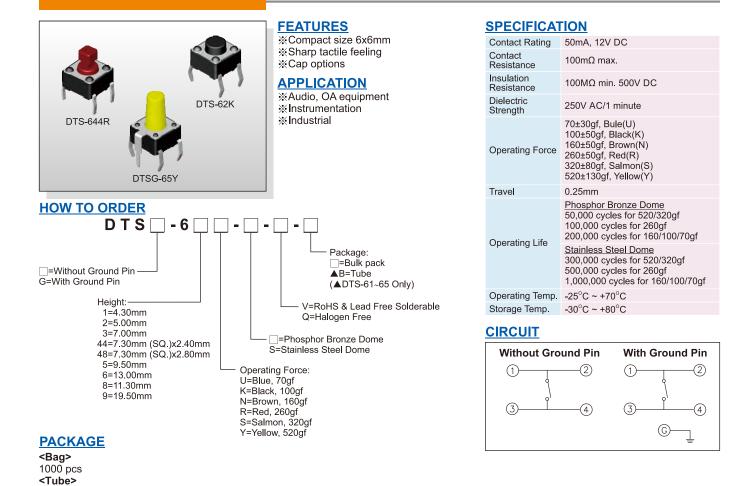
TACT SWITCH

D-15 DIPTRONICS

TACT SWITCH DTS(G)-6 SERIES

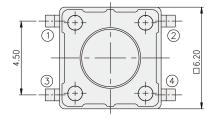
6x6 Through Hole & Ground Terminal Type

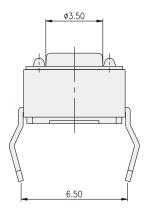




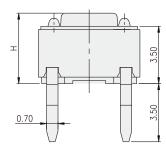
DTS-61~65: 75 pcs

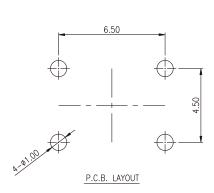
DTS-6





PART NO.	Н
DTS-61	4.30
DTS-62	5.00
DTS-63	7.00
DTS-65	9.50
DTS-66	13.00
DTS-68	11.30
DTS-69	19.50







PART NO.

DTS-644

DTS-648

ΠA

2.40

2.80

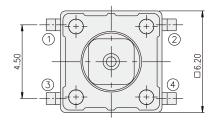
ΠB

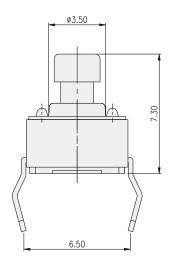
1.60

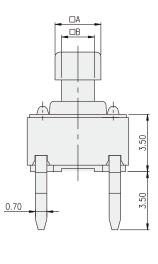
2.00

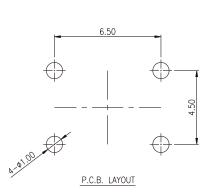


DTS-644(8)

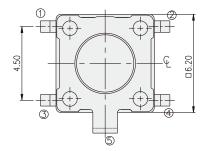


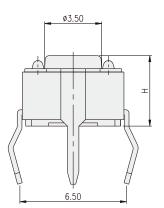


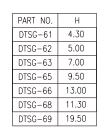


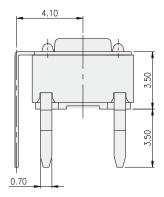


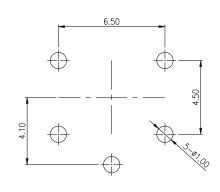
DTSG-6





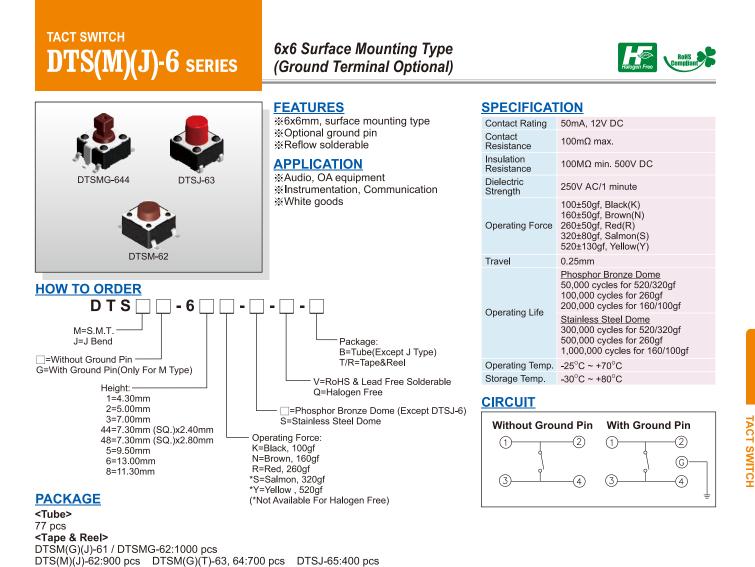






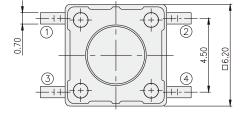
P.C.B. LAYOUT

D-17 DIPTRONICS

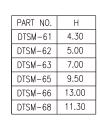


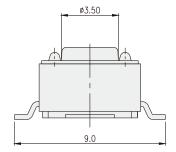
DTSM-6

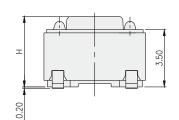
DTSM(G)-65:380 pcs

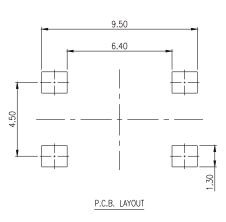


DTSM-68:300 pcs DTS(M)(J)-66:200 pcs







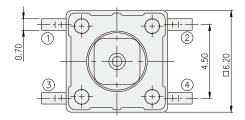




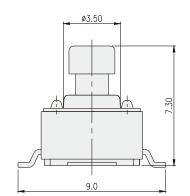
6x6 Surface Mounting Type (Ground Terminal Optional)

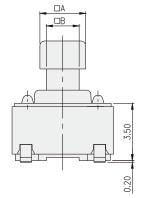


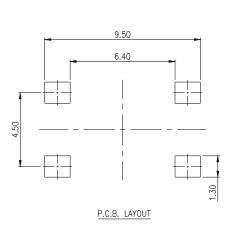
DTSM-644(8)



PART NO.	ΠA	□B
DTSM-644	2.40	1.60
DTSM-648	2.80	2.00

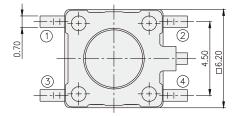






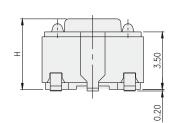
DTSMG-6

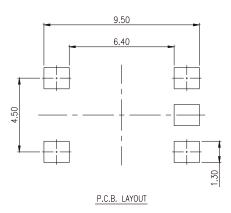
TACT SWITCH



ø3.50
9.0

PART NO.	Н
DTSMG-61	4.30
DTSMG-62	5.00
DTSMG-63	7.00
DTSMG-65	9.50
DTSMG-66	13.00
DTSMG-68	11.30

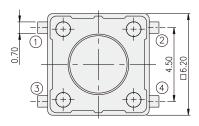




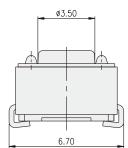


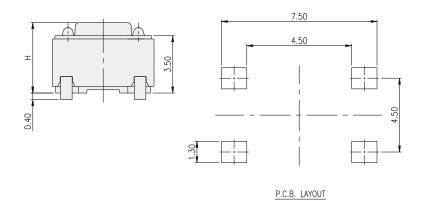


DTSJ-6



PART NO.	Н
DTSJ-61	4.30
DTSJ-62	5.00
DTSJ-63	7.00
DTSJ-65	9.50
DTSJ-66	13.00
DTSJ-68	11.30





TACT SWITCH

TACT SWITCH **DTSA-6** series

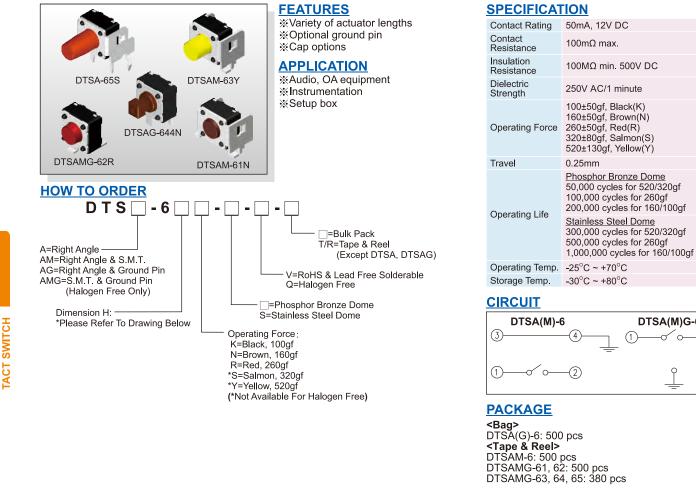
6x6 Right Angle & Ground Terminal Type



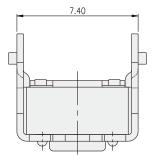
DTSA(M)G-6

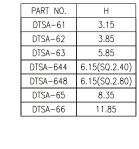
С

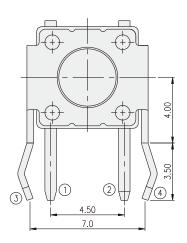
-(2)

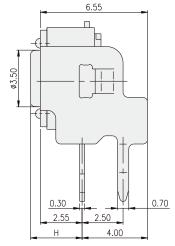


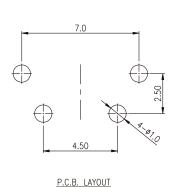
DTSA-6











D-21 DIPTRONICS

PART NO.

DTSAG-61

DTSAG-62

Н

4.30

5.00

7.00

7.30(SQ.2.40)

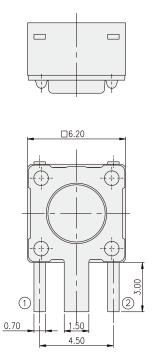
7.30(SQ.2.80)

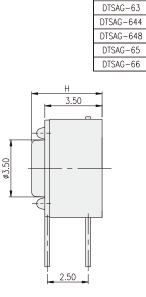
9.50

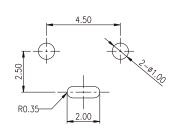
13.00



DTSAG-6

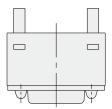


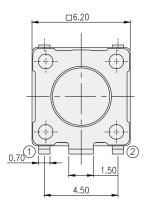


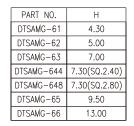


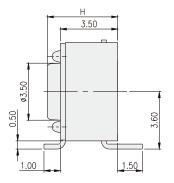
P.C.B. LAYOUT

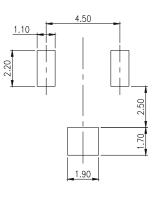
DTSAMG-6





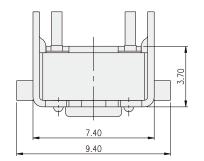




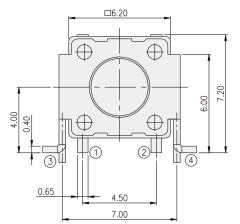


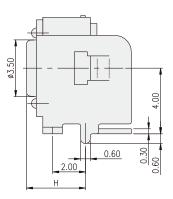


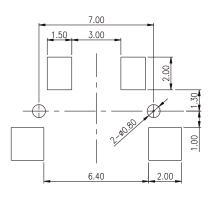
DTSAM-6



Н
3.60
4.30
6.30
7.30(SQ.2.40)
7.30(SQ.2.80)
8.80





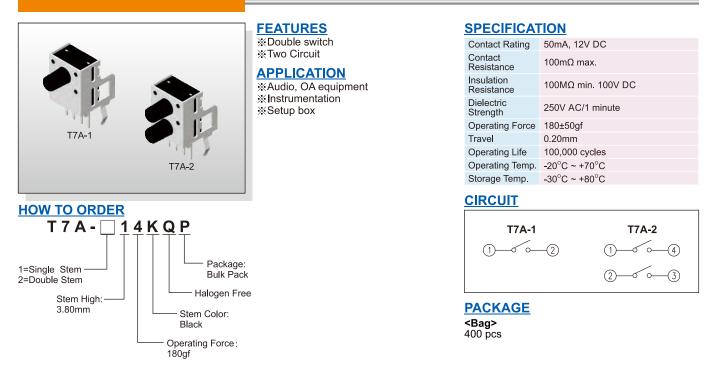


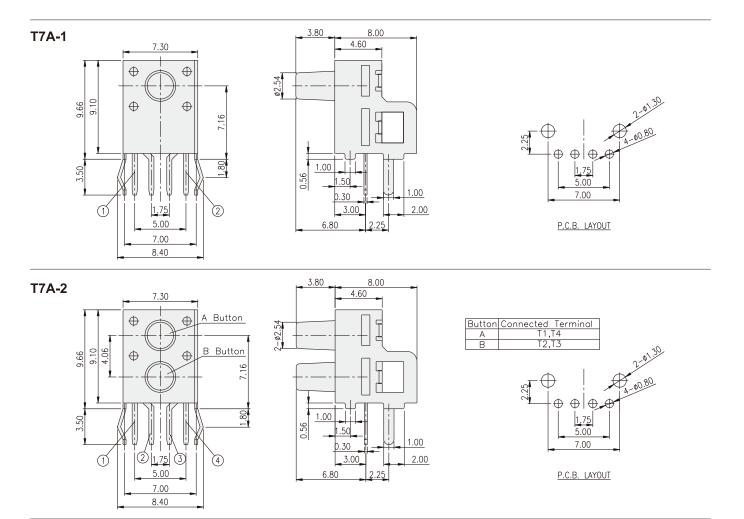


tact switch T7A series









TACT SWITCH

HOW TO ORDER

Operating Force : 1=100gf 2=160gf 3=200gf

T 7 B 🗌 Q R

T7B

7.5x7.0 SMT Type

NEW

Package:

Reel Halogen Free

FEATURES

*Long life cycles of 5 million *Low profile with 0.60mm

APPLICATION

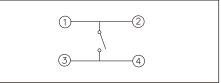
※Automotive※Industrial equipment※Portable electronic device

SPECIFICATION

Contact Rating	50mA, 12V DC
Contact Resistance	500mΩ max.
Insulation Resistance	10MΩ min. 100V DC
Dielectric Strength	100V AC/1 minute
Operating Force	100±50gf, 160±50gf, 200±50gf
Travel	0.25mm
Operating Life	5,000,000 cycles
Operating Temp.	-40°C ~ +85°C
Storage Temp.	$-40^{\circ}C \sim +90^{\circ}C$

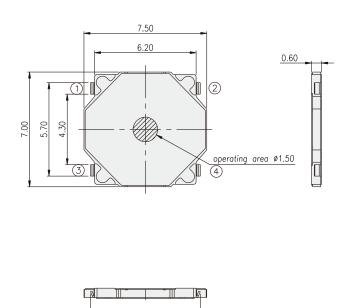
Halogen Free Compliant

<u>CIRCUIT</u>

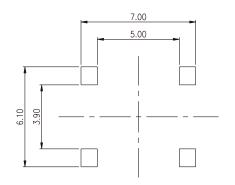


PACKAGE <Tape & Reel> 5200 pcs.

T7B

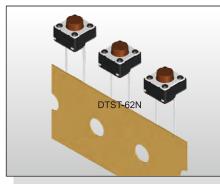


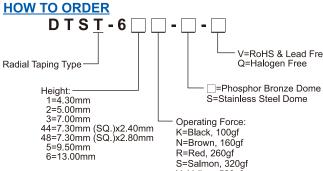
6.70





TACT SWITCH DTST-6 SERIES





Y=Yellow, 520gf

6x6 **Radial Taping Type**



%Radial taping type ℁Variety of actuator lengths %Allow automatic insertion onto PCB.

APPLICATION

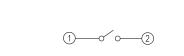
White goods , OA equipment Waudio, DVD player, TV ※Instrumentation

V=RoHS & Lead Free Solderable Q=Halogen Free

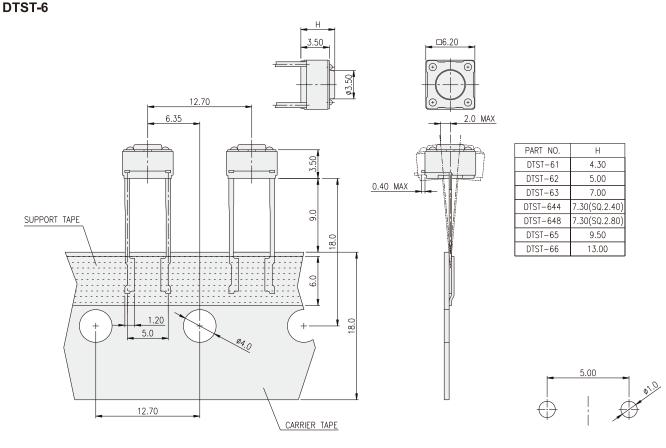
SPECIFICATION

Contact Rating	50mA, 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩ min. 500V DC
Dielectric Strength	250V AC/1 minute
Operating Force	100±50gf, Black(K) 160±50gf, Brown(N) 260±50gf, Red(R) 320±80gf, Salmon(S) 520±130gf, Yellow(Y)
Travel	0.25mm
Operating Life	Phosphor Bronze Dome 50,000 cycles for 520/320gf 100,000 cycles for 260gf 200,000 cycles for 160/100gf
	Stainless Steel Dome 300,000 cycles for 520/320gf 500,000 cycles for 260gf 1,000,000 cycles for 160/100gf
Operating Temp.	-25°C ~ +70°C
Storage Temp.	-30°C ~ +80°C

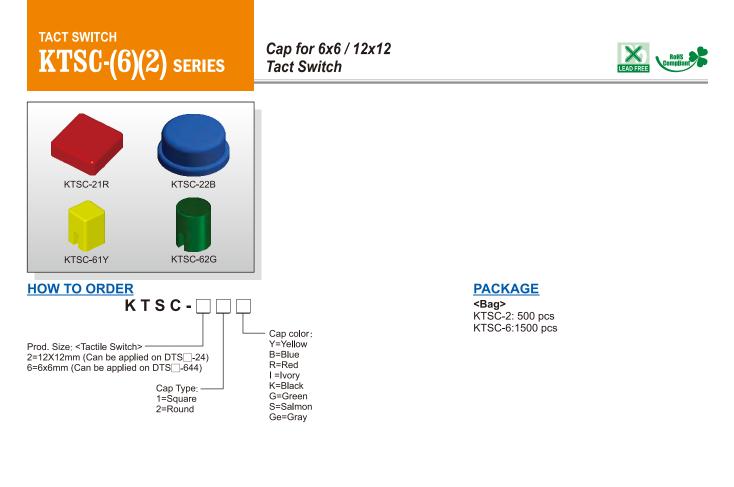
CIRCUIT

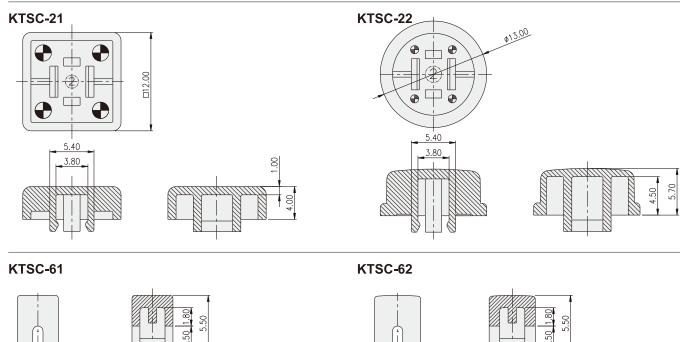


PACKAGE <Box> 900 pcs



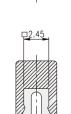


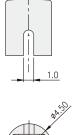
















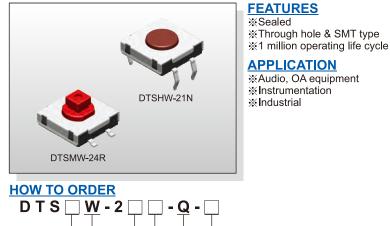


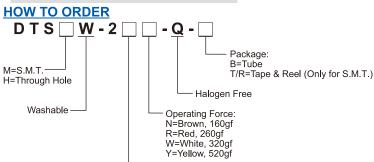
D-27 DIPTRONICS

TACT SWITCH DTS()W-2 SERIES

12x12 SMT & Through Hole Washable Type





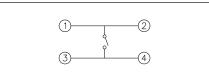


Height: 1=4.30mm 4=7.30mm

SPECIFICATION

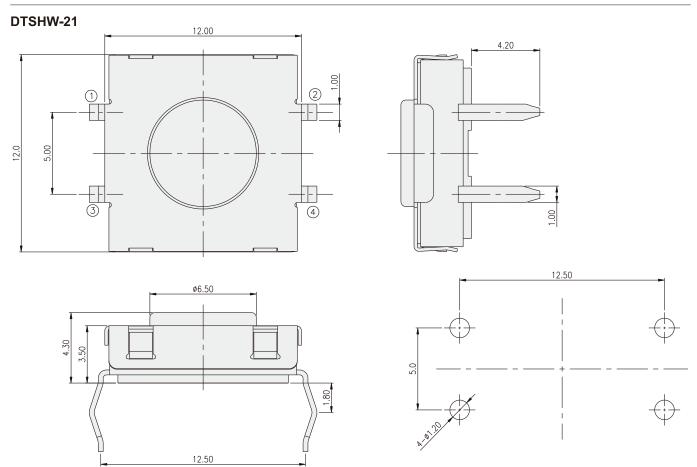
50mA, 24V DC
100mΩ max.
$100M\Omega$ min. 250V DC
250V AC/1 minute
160±50gf, Brown(N) 260±50gf, Red(R) 320±80gf, Salmon(S) 520±130gf, Yellow(Y)
0.4mm
300,000 cycles for 520/320gf 1,000,000 cycles for 260/160gf
-40°C ~ +85°C
-40°C ~ +85°C

<u>CIRCUIT</u>



PACKAGE

<Tube> 39 pcs <Tape & Reel> DTSMW-21: 700 pcs DTSMW-24: 500 pcs

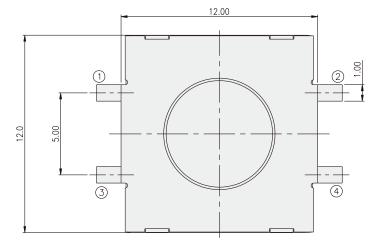


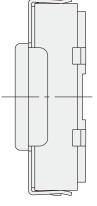


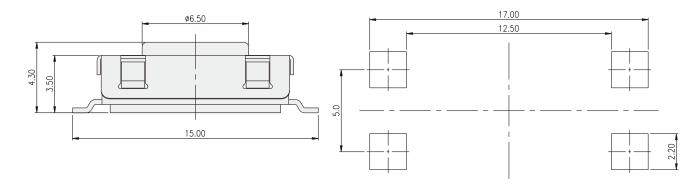
12x12 SMT & Through Hole Washable Type



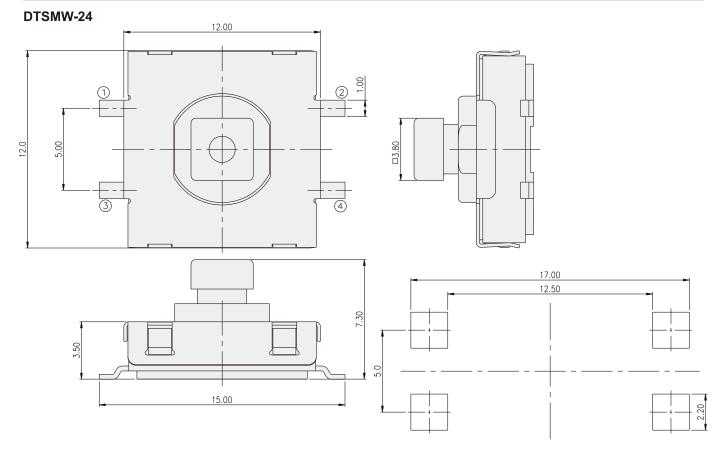
DTSMW-21







P.C.B. LAYOUT



P.C.B. LAYOUT

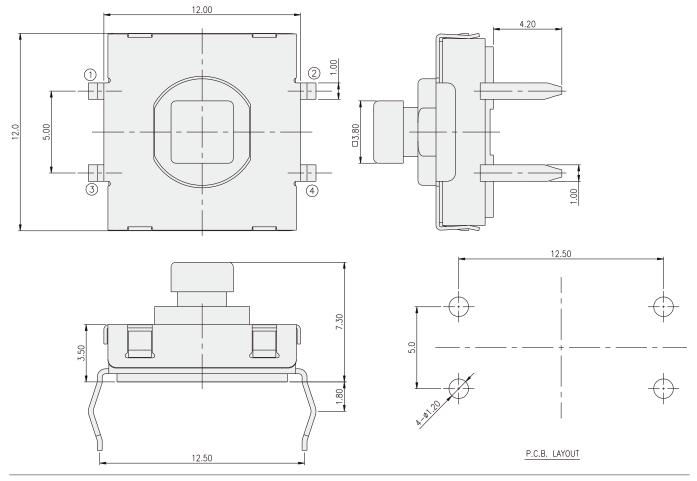
D-29 DIPTRONICS



12x12 SMT & Through Hole Washable Type

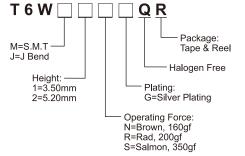


DTSHW-24





HOW TO ORDER



Long Travel SMT Type Tactile Switch



S or M terminations
Long Travel type
Long operation cycles
IP67

APPLICATION

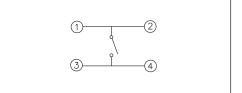
※Automotive
※Cellular phones
※Industrial electronics
※Network infrastructure and IT
※Elevator



SPECIFICATION

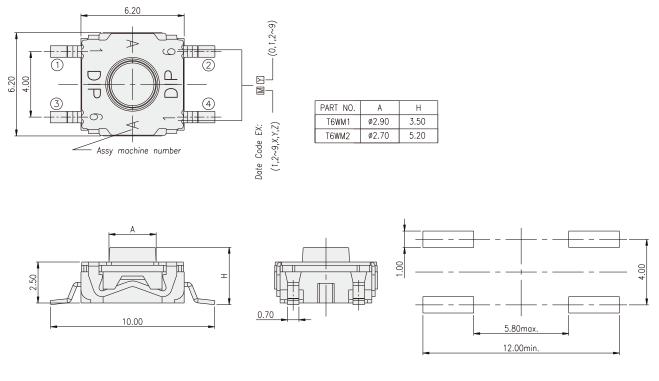
Contact Rating	20mV DC~32V DC/1.0 mA~50 mA
Contact Resistance	100mΩ max.
Insulation Resistance	10MΩ min. 100V DC
Dielectric Strength	250V AC/1 minute
Operating Force	160±50gf, Brown(N) 200±50gf, Rad(R) 350±100gf, Salmon(S)
Travel	0.3mm (160gf) 0.35mm (200gf) 0.5mm (350gf)
Operating Life	300,000 cycles (350gf) 500,000 cycles (200gf) 5,000,000 cycles (160gf)
Operating Temp.	-40°C ~ +85°C
Storage Temp.	-55°C(10 days) ~ +85°C(4 days)

<u>CIRCUIT</u>



PACKAGE <Tape & Reel> T6W_1: 2000 pcs T6W_2: 1000 pcs

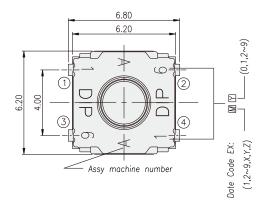
T6WM



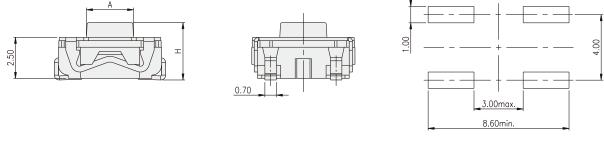
Long Travel SMT Type Tactile Switch



T6WJ



А	Н
ø2.90	3.50
ø2.70	5.20



TACT SWITCH **DTSHW-6** series



D T S H W - 6 🗌 🗌 - 🗌 - 🖪

6x6 Through Hole Washable Type



FEATURES

Package: Tube

Operating Force: N=Brown, 160gf(66N, 677N) 180gf(69N, 67N, 65N, 64N) S=Silver, 160gf(68S) R=Red, 260gf(69R, 67R, 66R, 65R, 64R) T=Transparent, 360gf(69T, 67T, 65T, 677T)

V=RoHS & Lead Free Solderable Q=Halogen Free

i‰Sealed %Snap in type *Dust proof with high reliability

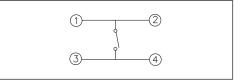
APPLICATION

%Audio, OA equipment **%**Instrumentation, Communication **White goods**

SPECIFICATION

Contact Rating	50mA, 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩ min. 500V DC
Dielectric Strength	250V AC/1 minute
Operating Force	160±50gf, Brown(N) 66/677 160±50gf, Silver(S) 68 180±50gf, Brown(N) 69/67/65/64 260±70gf, Red(R) 69/67/66/65/64 360±90gf, Transparent(T) 69/67/65/677
Travel	0.25mm 68S/66N/66R/677 0.45mm(69/67N,R)(65/64N,R,T) 0.6mm 69/67T
Operating Life	100,000 cycles min. for 66/68/677 500,000 cycles min. for 69/67/65/64
Operating Temp.	-25°C ~ +70°C
Storage Temp.	-30°C ~ +80°C

CIRCUIT



PACKAGE <Tube> 75 pcs

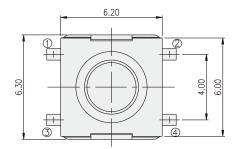
DTSHW-66

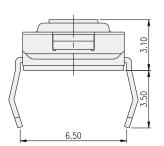
Through Hole

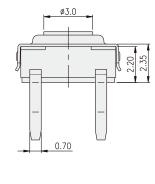
Washable

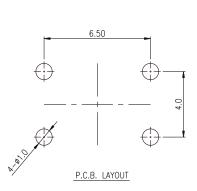
Dimension H:-

Dimension H: 4=4.50mm (N, R) 5=3.50mm (N, R, T) 6=3.10mm (N, R, T) 7=5.20mm (N, R, T) 8=2.30mm (S) 9=3.80mm (N, R, T)









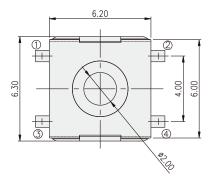
D-33 DIPTRONICS

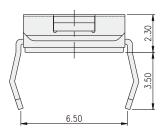


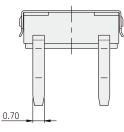
6x6 Through Hole Washable Type

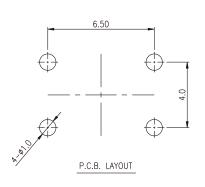


DTSHW-68

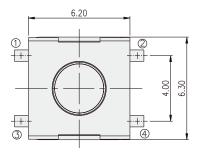




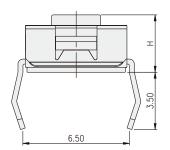


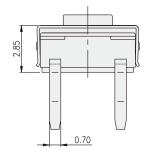


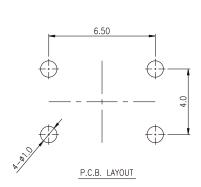
DTSHW-6



PART NO.	Н
DTSHW-64	4.50
DTSHW-65	3.50
DTSHW-67	5.20
DTSHW-69	3.80
DTSHW-677	7.30



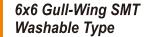






DTSMW-69N

DTSGMW-66R







*Sealed *Reflow solderable Dust proof with high reliability APPLICATION

*Audio, OA equipment

%Instrumentation, Communication
%White goods

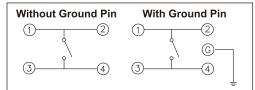
HOW TO ORDER D T S W - 6 M=S.M.T. Package: GM=S.M.T. & With Ground Pin (66 Only) V=RoHS & Lead Free Solderable Q=Halogen Free Operating Force: Dimension H: 4=4.50mm (N, R) 5=3.50mm (N, R, T) 6=3.10mm (N, R) 77=5.20mm (N, R, T) 77=7.30mm (N, R, T) 8=2.30mm (N, R, T) 8=2.30mm (N, R, T) 8=3.80mm (N, R, T)

DTSMW-68S

SPECIFICATION

Contact Rating	50mA, 12V DC	
Contact Resistance	100mΩ max.	
Insulation Resistance	100MΩ min. 500V DC	
Dielectric Strength	250V AC/1 minute	
Operating Force	160±50gf, Brown(N) 66/677 160±50gf, Silver(S) 68 180±50gf, Brown(N) 69/67/65/64 260±70gf, Red(R) 69/67/66/65/64 360±90gf, Transparent(T) 69/67/65/677	
Travel	0.25mm 68S/66N/66R/677 0.45mm (69/67N,R)(65/64N,R,T) 0.6mm 69/67T	
Operating Life	100,000 cycles min. for 68/66/677 500,000 cycles min. for 69/67/65/64	
Operating Temp.	-25°C ~ +70°C	
Storage Temp.	-30°C ~ +80°C	

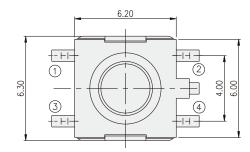
<u>CIRCUIT</u>

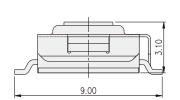


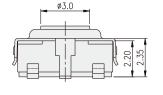
PACKAGE <Tube>

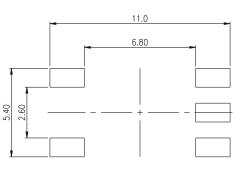
75 pcs **Tape & Reel>** DTSGMW-66: 2000 pcs DTSMW-68, 66: 2000 pcs DTSMW-69, 65: 1900 pcs DTSMW-67, 64: 900 pcs DTSMW-677: 650 pcs

DTSGMW-66









P.C.B. LAYOUT

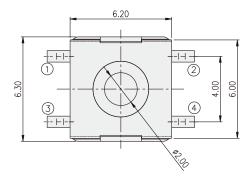
D-35 DIPTRONICS

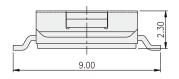


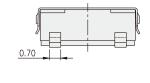
6x6 Gull-Wing SMT Washable Type

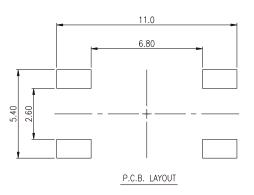


DTSMW-68



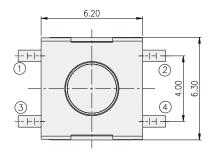




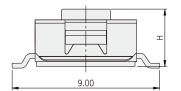


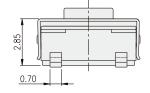
TACT SWITCH

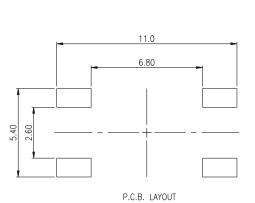
DTSMW-6



PART NO.	Н
	4.50
DTSMW-64	4.50
DTSMW-65	3.50
DTSMW-67	5.20
DTSMW-69	3.80
DTSMW-677	7.30







TACT SWITCH **DTSJW-6** series



HOW TO ORDER DTSJW-6 - - -

J Bend Washable 4=4.50mm (N, R) 5=3.50mm (N, R, T) 6=3.10mm (N, R, T) 7=5.20mm (N, R, T) 77=7.30mm (N, R, T) 8=2.30mm (S) 9=3.80mm (N, R, T)	Package: B=Tube T/R=Tape & Reel V=RoHS & Lead Free Solderable Q=Halogen Free Operating Force: N=Brown, 160gf(66N, 677N) 180gf(69N, 67N, 65N, 64N) S=Silver, 160gf(68S) R=Red, 260gf(69R, 67R, 66R, 65R, 64R) T=Transparent, 360qf (69T, 67T, 65T, 677T)
	· · · · · · · · · · · · · · · · · · ·

FEATURES

i‰Sealed ℜReflow solderable *Dust proof with high reliability

APPLICATION

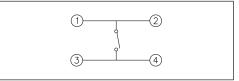
%Audio, OA equipment *Instrumentation, Communication [™]White goods



SPECIFICATION

Contact Rating	50mA, 12V DC		
Contact Resistance	100mΩ max.		
Insulation Resistance	100MΩ min. 500V DC		
Dielectric Strength	250V AC/1 minute		
Operating Force	160±50gf, Brown(N) 66/677 160±50gf, Silver(S) 68 180±50gf, Brown(N) 69/67/65/64 260±70gf, Red(R) 69/67/66/65/64 360±90gf, Transparent(T) 69/67/65/677		
Travel	0.25mm 68S/66N/66R/677 0.45mm (69/67N,R)(65/64N,R,T) 0.6mm 69/67T		
Operating Life	100,000 cycles min. for 68/66/677 500,000 cycles min. for 69/67/65/64		
Operating Temp.	-25°C ~ +70°C		
Storage Temp.	-30°C ~ +80°C		

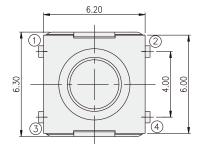
<u>CIRCUIT</u>

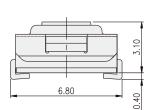


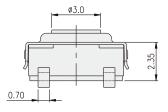
PACKAGE

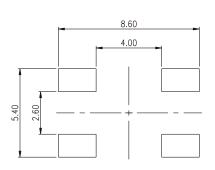
<Tube> 75 pcs **<Tape & Reel>** DTSJW-64, 67: 900 pcs DTSJW-65, 69: 1800 pcs DTSJW-65 no 1800 pcs DTSJW-66: 1900 pcs DTSJW-68: 2000 pcs DTSJW-677: 650 pcs

DTSJW-66









P.C.B. LAYOUT

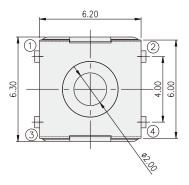
D-37 DIPTRONICS

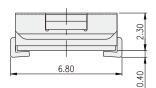


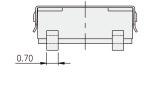
6x6 J SMT Washable Type

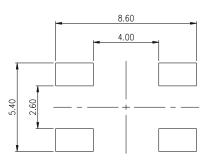


DTSJW-68



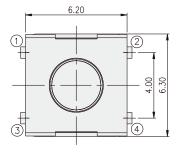




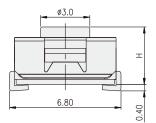


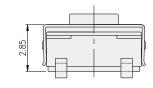
P.C.B. LAYOUT

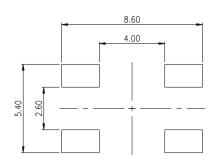
DTSJW-6



PART NO.	Н
DTSJW-64	4.50
DTSJW-65	3.50
DTSJW-67	5.20
DTSJW-69	3.80
DTSJW-677	7.30









DTSJW2-67S

6x6 J SMT Washable Type

FEATURES

i‰Sealed %Gold contact available *Dust proof with high reliability

APPLICATION

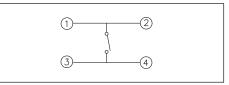
%Audio, OA equipment *Instrumentation, Communication [™]White goods

SPECIFICATION

SFLOIDCATION			
Contact Rating	50mA, 12V DC		
Contact Resistance	100mΩ max.		
Insulation Resistance	100MΩ min. 500V DC		
Dielectric Strength	250V AC/1 minute		
Operating Force	200±50gf, 400±100gf		
Travel	0.4/0.6mm		
Operating Life	300, 000 cycles		
Operating Temp.	-40°C ~ +85°C		
Storage Temp.	-40°C ~ +85°C		

Dutof Dust-proof Halogen Free Compliant

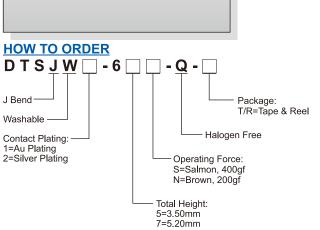
<u>CIRCUIT</u>



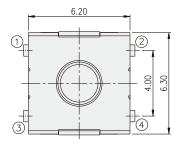
PACKAGE

<Tape & Reel>
DTSJW□-65: 1900 pcs
DTSJW□-67: 900 pcs

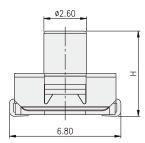
Washable · Contact Plating: 1=Au Plating 2=Silver Plating

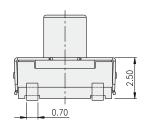


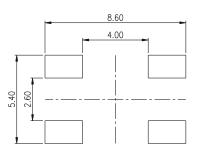
DTSJW -6

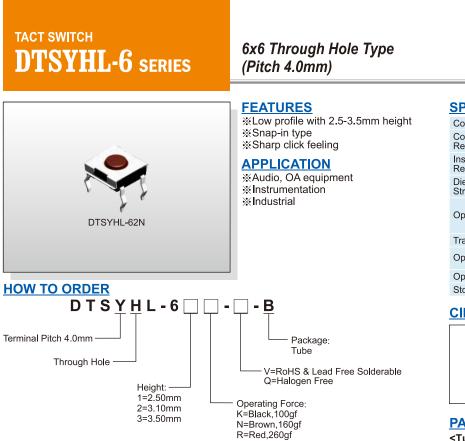


PART NO.	Н
DTSJW □-65	3.50
DTSJW □-67	5.20







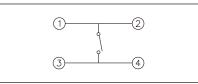




Contact Rating	50mA, 12V DC		
Contact Resistance	100mΩ max.		
Insulation Resistance	100M Ω min. 500V DC		
Dielectric Strength	250V AC/1 minute		
Operating Force	100±50gf, Black(K) 160±50gf, Brown(N) 260±50gf, Red(R)		
Travel	0.25mm		
Operating Life	100,000 cycles for 260gf 1,000,000 cycles for 160, 100gf		
Operating Temp.	-25°C ~ +70°C		
Storage Temp.	-40°C ~ +70°C		

RoHS Complia

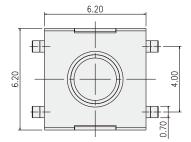
<u>CIRCUIT</u>



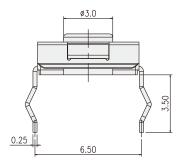
PACKAGE

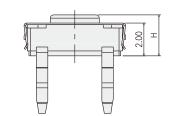
<Tube> 75 pcs

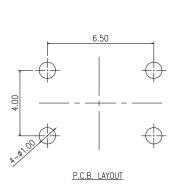
DTSYHL-6

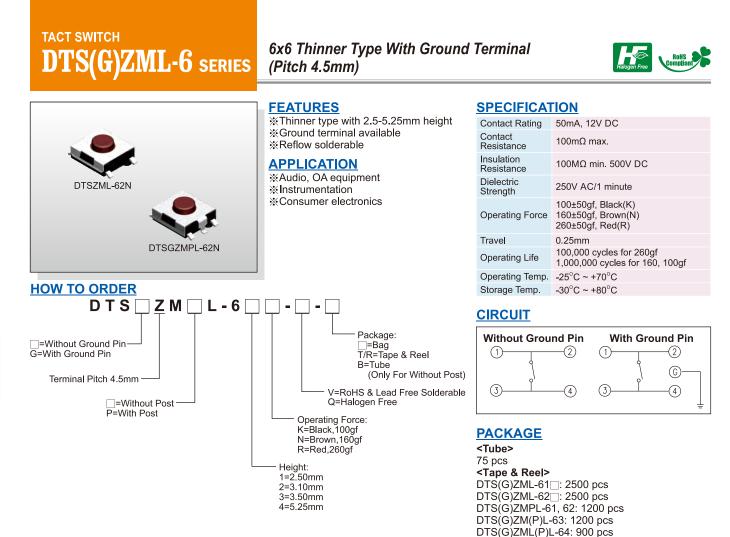


PART NO.	Н
DTSYHL-61	2.50
DTSYHL-62	3.10
DTSYHL-63	3.50

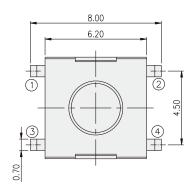




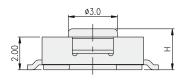


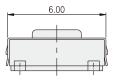


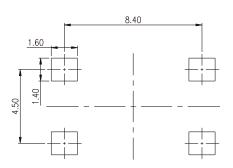
DTSZML-6



PART NO.	Н
DTS ZML-61	2.50
DTS ZML-62	3.10
DTS ZML-63	3.50
DTS ZML-64	5.25





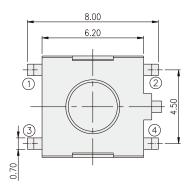




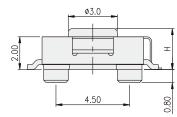
6x6 Thinner Type With Ground Terminal (Pitch 4.5mm)

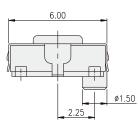


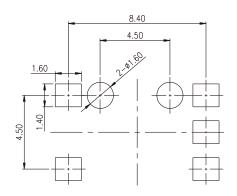
DTSGZMPL-6



PART NO.	Н
DTS ZMPL-61	2.50
DTS ZMPL-62	3.10
DTS ZMPL-63	3.50
DTS ZMPL-64	5.25









-

ℜReflow solderable

APPLICATION

%Instrumentation%White goods

*Audio, OA equipment

Package:

V=RoHS & Lead Free Solderable

B=Tube T/R=Tape & Reel

Q=Halogen Free

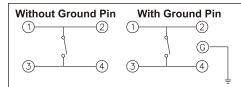
Actuator Type: =Soft <62> / Hard <60, 61>

P=Hard <62 Only>





Operating Temp. $-25^{\circ}C \sim +70^{\circ}C$ Storage Temp. $-30^{\circ}C \sim +80^{\circ}C$



PACKAGE

<Tube>
75 pcs
<Tape & Reel>
DTS(G)F-60 / DTSF-61 : 3000 pcs
DTS(G)L-60 / DTS(G)L-61 : 2700 pcs
DTS(G)L-62 / DTS(G)F-62 : 2500 pcs
DTSGF-61 : 2500 pcs



DTSGF-61Y

HOW TO ORDER

=Without Ground Pin

G=With Ground Pin

DTSL-62N

D T S

L=L S.M.T.

F=F S.M.T.

Total Height:

0=2.00mm

1=2 50mm

2=3.10mm

Operating Force: K=Black, 100gf N=Brown, 160gf

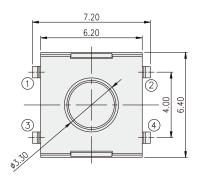
R=Red, 260gf

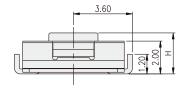
S=White, 320gf Y=Yellow, 520gf

N=Brown, 200gf <Soft actuator 62 Only>

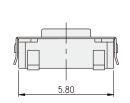
DTSL-60N

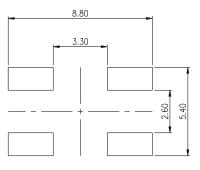
- 6











P.C.B. LAYOUT

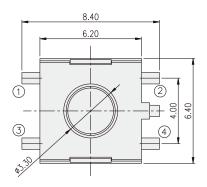
D-43 DIPTRONICS



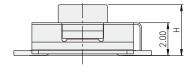
6x6 Thinner Type With Ground Terminal (Pitch 4.0mm)

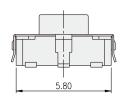


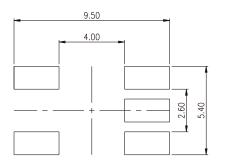
DTSGF-6



PART NO.	Н
DTSGF-60	2.00
DTSGF-61	2.50
DTSGF-62	3.10

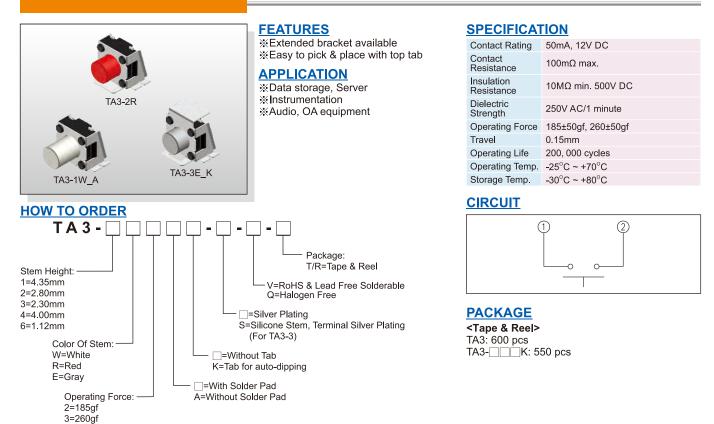




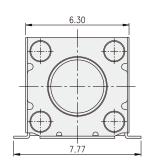


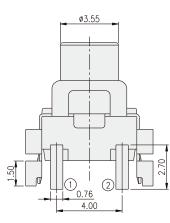
tact switch TA3 series

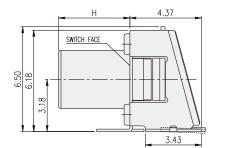




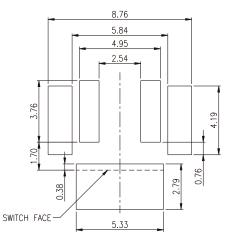
TACT SWITCH







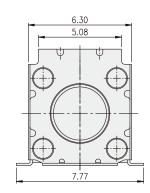
PART NO.	Н
TA3-100	4.35
TA3-200	2.80
TA3−3□□	2.30
TA3-400	4.00
TA3-600	1.12

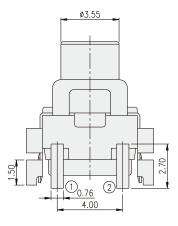


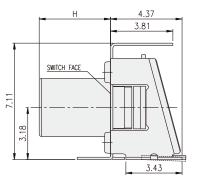
6x6 Right Angle Type With Supporting Terminal & Tab Available



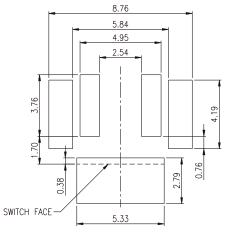
TA3-





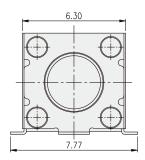


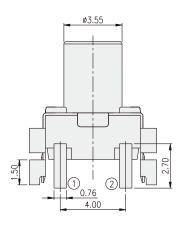
PART NO.	Н
TA3−1□□ K	4.35
TA3−2□□ K	2.80
TA3− <i>3</i> □□ K	2.30
TA3−4□□ K	4.00
TA3−6□□ K	1.12

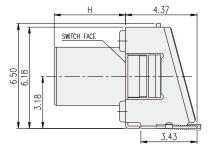


P.C.B. LAYOUT

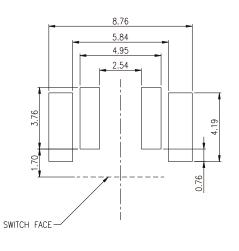
TA3-





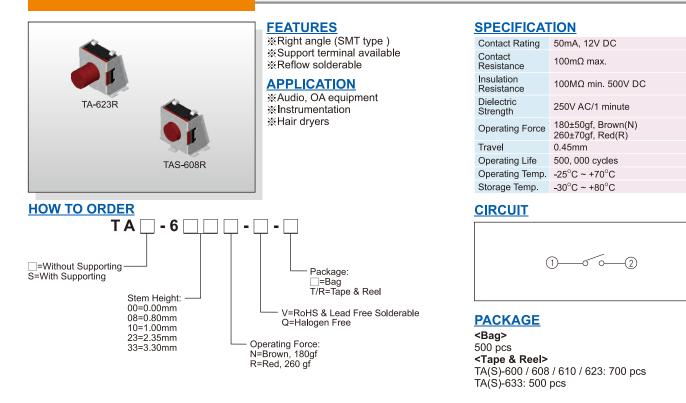


PART NO.	Н
TA3-100A	4.35
TA3-200A	2.80
TA3-300A	2.30
TA3-400A	4.00
TA3-600A	1.12

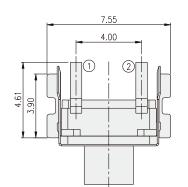


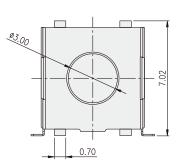
6x6 SMT & Right Angle Type Soft Stem



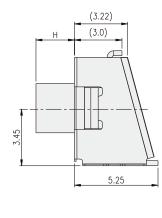


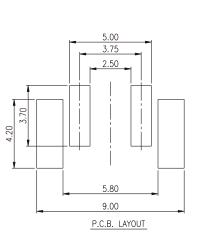
TA-6





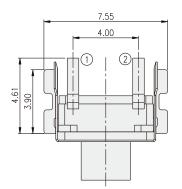


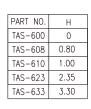


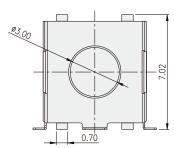


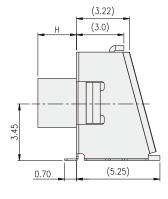


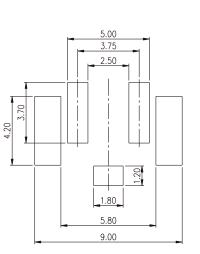
TAS-6











tact switch **T1A series**

2.8*1.9 SMT Type (H=0.60mm)

FEATURES

%Compact-size 2.8*1.9mm %Low profile with 0.60mm %Long operation cycles

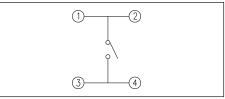
APPLICATION

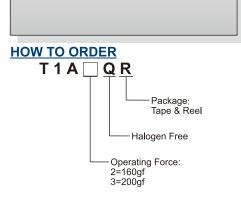
- Smart phone
 Digital camera, Medical
- * Portable electronic device
- % 3C products

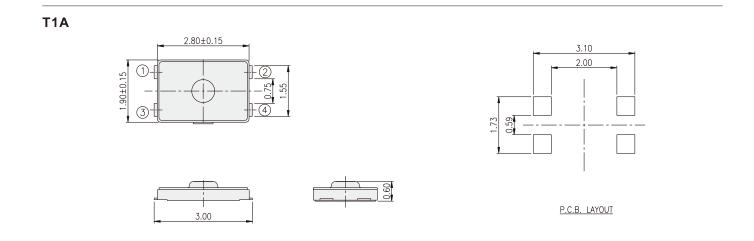
SPECIFICATION

Contact Rating	10uA,1V DC to 50mA,12V DC
Contact Resistance	500mΩ max.
Insulation Resistance	100M Ω min. 100V DC
Dielectric Strength	100V AC/1 minute
Operating Force	160±50gf / 200±50gf
Travel	0.13mm
Operating Life	300,000 cycles
Operating Temp.	-40°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

<u>CIRCUIT</u>









TACT SWITCH T1B SERIES

2.6*1.6 SMT Type (H=0.55mm)





HOW TO ORDER T 1 B _ Q R



Operating Force: 2=160gf

FEATURES

Compact-size 2.6*1.6mm
Low profile with 0.55mm
200,000 operation cycles

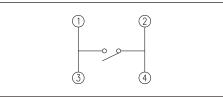
APPLICATION

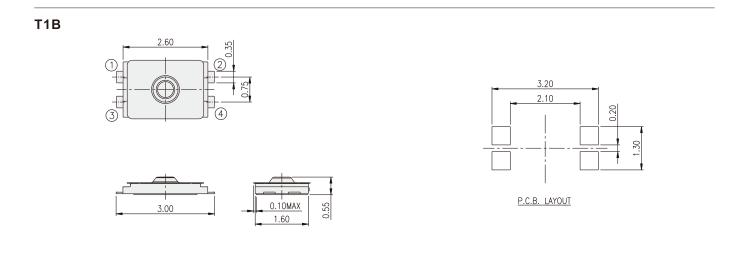
- Smart phone
 Digital camera, Medical
- * Portable electronic device
- ※ 3C products

SPECIFICATION

Contact Rating	10uA,2V DC to 20mA,15V DC
Contact Resistance	500mΩ max.
Insulation Resistance	$50M\Omega$ min. 100V DC
Dielectric Strength	250V AC/1 minute
Operating Force	160±50gf
Travel	0.11mm
Operating Life	200,000 cycles
Operating Temp.	-40°C ~ +85°C
Storage Temp.	$-40^{\circ}C \sim +85^{\circ}C$

CIRCUIT





2.2*1.3 SMT Type (H=0.55mm)





HOW TO ORDER T 1 D Q R



- Operating Force: 2=160gf

FEATURES

Compact-size 2.2*1.3mm
Low profile with 0.55mm
100,000 operation cycles

APPLICATION %Smart phone

© Digital camera, Medical
Portable electronic device
%3C products

SPECIFICATION

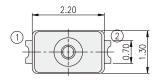
Contact Rating	50mA,12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩ min. 100V DC
Dielectric Strength	250V AC/1 minute
Operating Force	160±50gf
Travel	0.11mm
Operating Life	100,000 cycles
Operating Temp.	-30°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

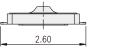
<u>CIRCUIT</u>

()2	

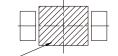
PACKAGE To be confirmed

TACT SWITCH







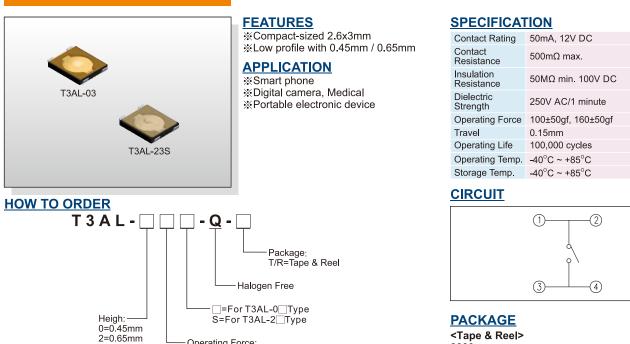


Any land pattern or vias shall not be provided at 1.5X1.2 area.

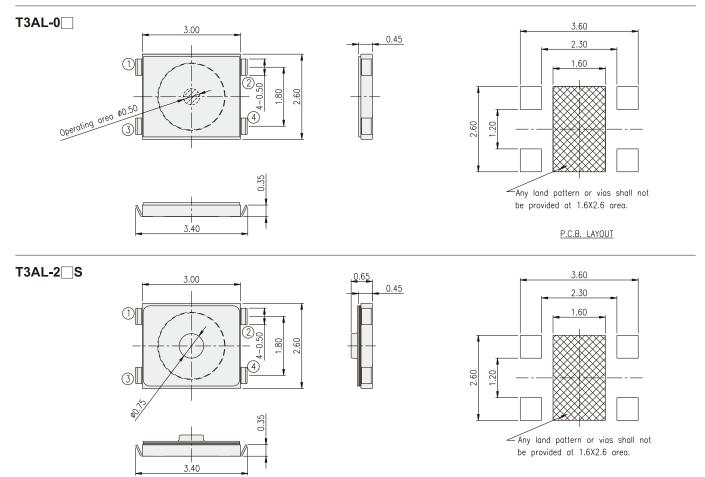
tact switch T3AL series

2.6x3 J Terminal SMT Type (H: 0.45/0.65mm)





Operating Force: 2=100gf 3=160gf



P.C.B. LAYOUT

TACT SWITCH T3BL SERIES

3.7x3.7 J Terminal SMT Type (H: 0.35mm)

Compact-sized 3.7x3.7mm
Low profile of 0.35mm height
\$500,000 life cycles operating

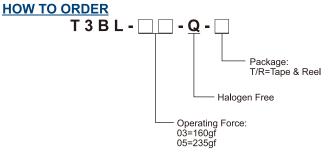
Digital camera, MedicalPortable electronic device

FEATURES

APPLICATION %Smart phone



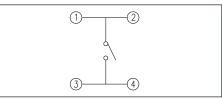


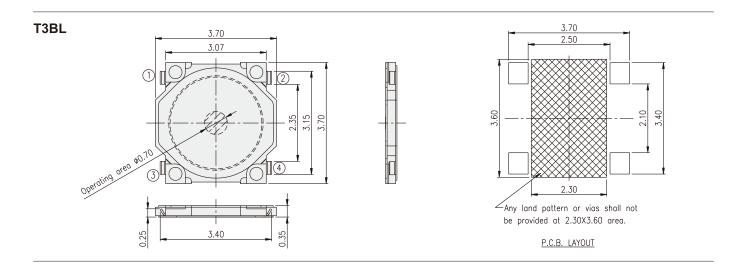


SPECIFICATION

Contact Rating	50mA, 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩ min. 100V DC
Dielectric Strength	100V AC/1 minute
Operating Force	160±50gf/235±60gf
Travel	0.15mm
Operating Life	50,000 cycles for 235gf 500,000 cycles for 160gf
Operating Temp.	-40°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

<u>CIRCUIT</u>





HOW TO ORDER T 3 C Q R

тзс

Package: Tape & Reel

-Halogen Free

Operating Force: 2=160gf 3=180gf 4=240gf 3.0*2.0 SMT Type (H=0.60mm)

FEATURES

%Compact-size 3.0*2.0mm %Low profile with 0.60mm %Long operation cycles

APPLICATION

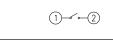
- Smart phone
 Digital camera, Medical
- * Portable electronic device
- ※ 3C products

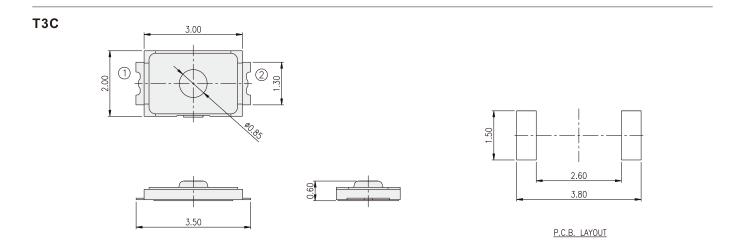
SPECIFICATION

Contact Rating	10uA,1V DC to 50mA,12V DC
Contact Resistance	500mΩ max.
Insulation Resistance	100MΩ min. 100V DC
Dielectric Strength	100V AC/1 minute
Operating Force	160±50gf / 180±50gf / 240±60gf
Travel	0.13mm
Operating Life	300,000 cycles
Operating Temp.	-40°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

Proof Dust-proof Halogen Free Rolls

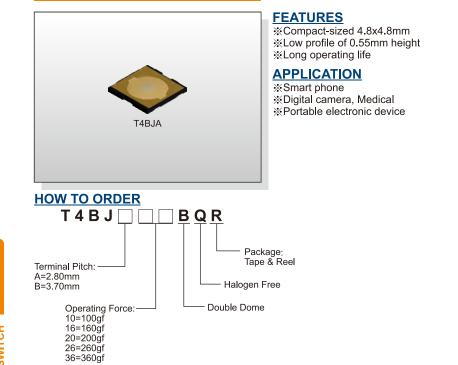
CIRCUIT





4.8x4.8 J Terminal SMT Type (H: 0.55mm)

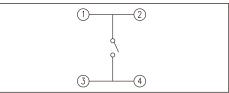




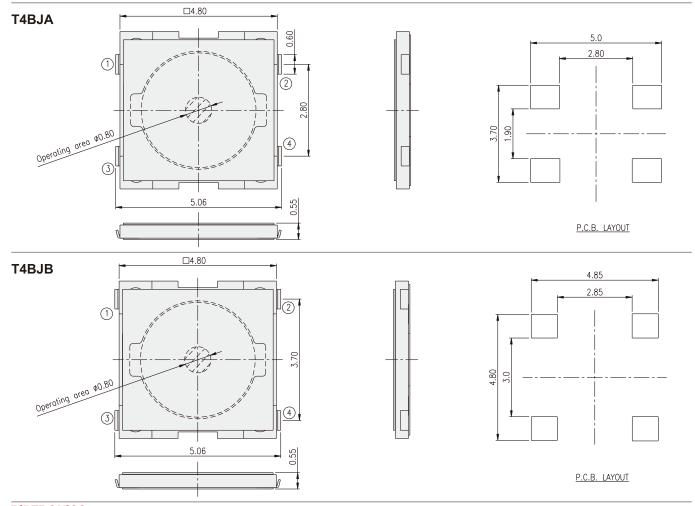
SPECIFICATION

50mA, 12V DC
100mΩ max.
100MΩ min. 100V DC
100V AC/1 minute
100±50gf/160±50gf/200±50gf 260±50gf/360±60gf
0.2mm
200,000 cycles for 360gf 500,000 cycles for 260/200gf 1,000,000 cycles for 160/100gf
-30°C ~ +80°C
-40°C ~ +85°C

<u>CIRCUIT</u>



PACKAGE <Tape & Reel> 8000 pcs

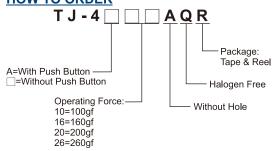


D-55 DIPTRONICS

4.4x4.4 J Terminal SMT Type (H: 0.55mm)







FEATURES

*Compact-sized 4.4x4.4mm *Low profile of 0.55mm height *Long operating life

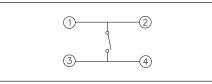
APPLICATION

Smart phoneDigital camera, MedicalPortable electronic device

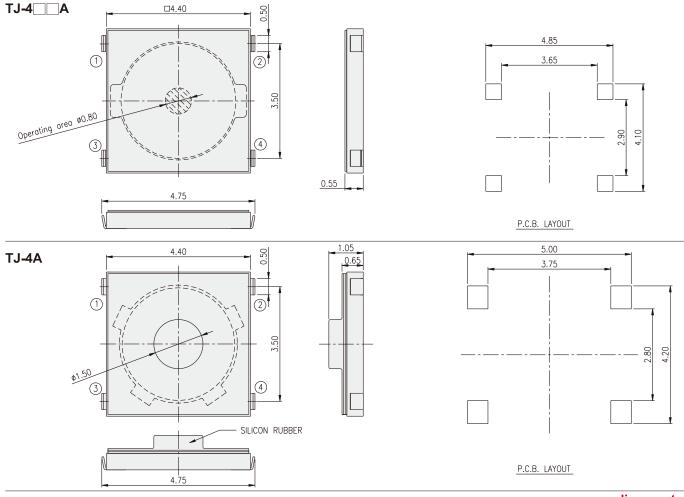
SPECIFICATION

Contact Rating	50mA, 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100M Ω min. 500V DC
Dielectric Strength	300V AC/1 minute
Operating Force	100±50gf/160±50gf/200±50gf 260±50gf
Travel	0.2mm
Operating Life	500,000 cycles for 260/200gf 1,000,000 cycles for 160/100gf
Operating Temp.	-20°C ~ +70°C
Storage Temp.	-30°C ~ +80°C

<u>CIRCUIT</u>



PACKAGE <Tape & Reel> TJ-4: 8000 pcs TJ-4A: 5000 pcs

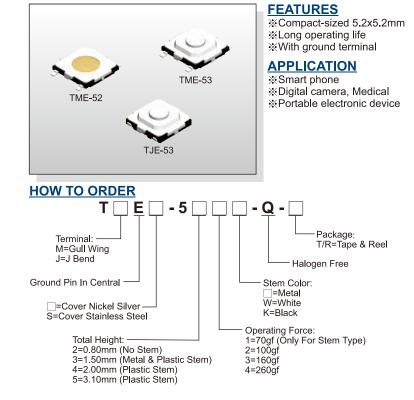


www.dip.com.tw

TACT SWITCH T()E-5 SERIES

5.2x5.2 SMT & J SMT Type (H: 0.8 / 1.5mm)

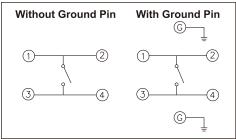




SPECIFICATION

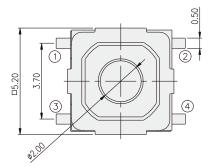
Contact Rating	50mA, 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩ min. 500V DC
Dielectric Strength	250V AC/1 minute
Operating Force	70±50gf/100±50gf/160±50gf 260±50gf
Travel	0.25mm
Operating Life	200,000 cycles for 260gf 1,000,000 cycles for 160/100/70gf
Operating Temp.	-25°C ~ +70°C
Storage Temp.	-30°C ~ +80°C

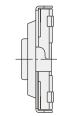
<u>CIRCUIT</u>

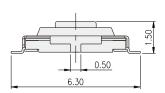


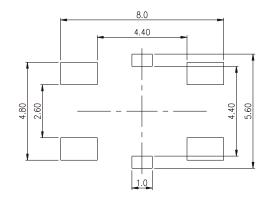
PACKAGE <Tape & Reel> T_E-52, 53=4000 pcs T_E-54=3000 pcs T_E-55=2000 pcs

TME-5







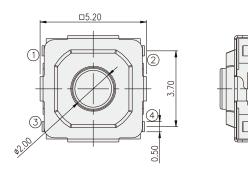


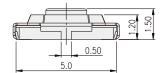


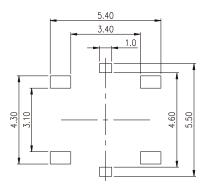
5.2x5.2 SMT & J SMT Type (H: 0.8 / 1.5mm)



TJE-53

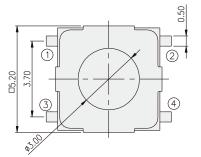


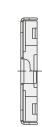


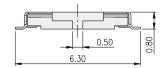


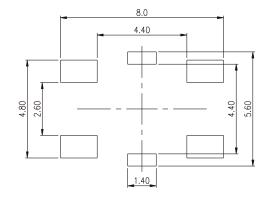
P.C.B. LAYOUT

TME-52







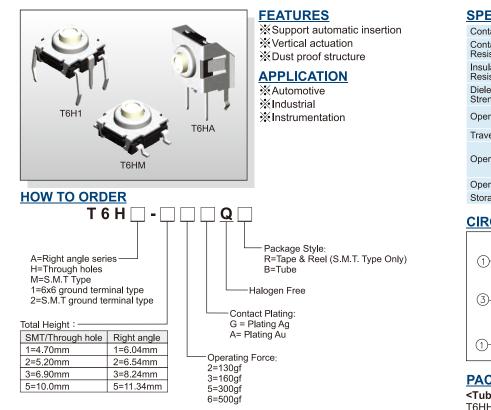


TACT SWITCH

tact switch T6H series

7.4x7.4 / 8.0x8.0 Right Angle / Through Hole / SMT Type

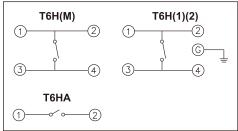




SPECIFICATION

Contact Rating	50mA, 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	$100M\Omega$ min. $100V$ DC
Dielectric Strength	250V AC/1 minute
Operating Force	130±50gf/160±50gf 300±50gf/500±100gf
Travel	0.5mm
Operating Life	200,000 cycles for 500gf 500,000 cycles for 300gf 1,000,000 cycles for 160/130gf
Operating Temp.	-40°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

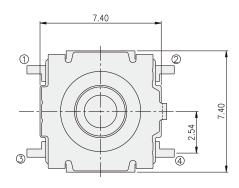
CIRCUIT



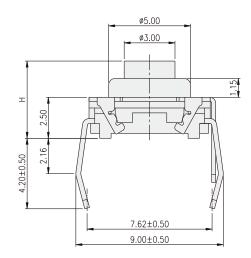
PACKAGE

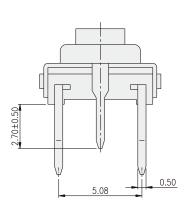
<Tube> T6HH, T6H1: 60 pcs T6HA: 52 pcs <Tape & Reel> T6HM-(1)(2): 700 pcs T6HM-3: 500 pcs T6HM-5: 350 pcs

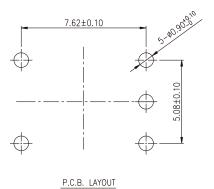
TACT SWITCH



PART NO.	Н
T6H1-1	4.70
T6H1-2	5.20
T6H1-3	6.90
T6H1-5	10.00





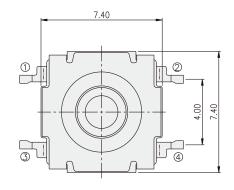


D-59 DIPTRONICS

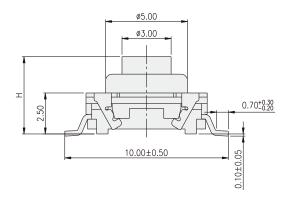
7.4x7.4 / 8.0x8.0 Right Angle / Through Hole / SMT Type

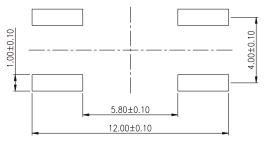


T6HM



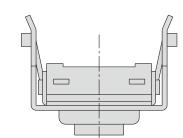
r	
PART NO.	Н
T6HM-1	4.70
T6HM-2	5.20
T6HM-3	6.90
T6HM-5	10.00



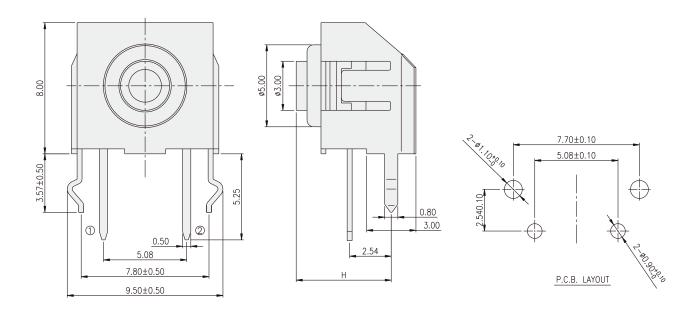


P.C.B. LAYOUT

T6HA



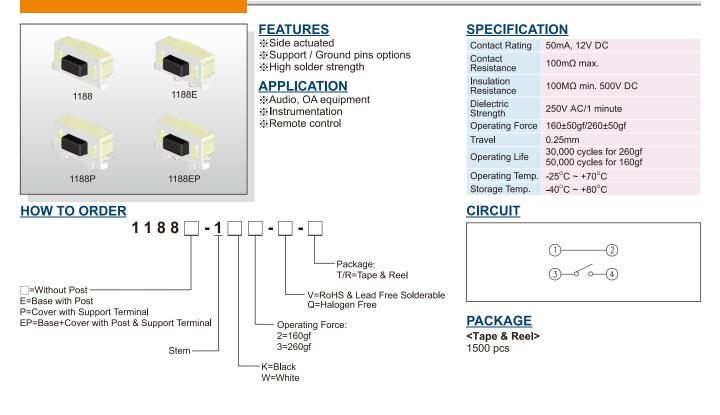
PART NO.	Н
T6HA-1	6.04
T6HA-2	6.54
T6HA-3	8.24
T6HA-5	11.34

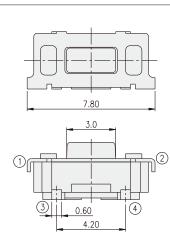


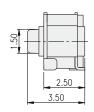
tact switch 1188 series

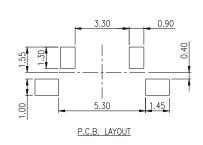
3.5x7 SMT & Side Push Type



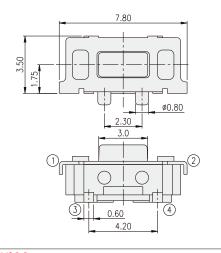


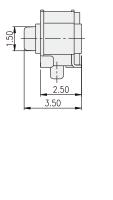


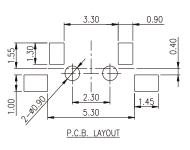




1188E



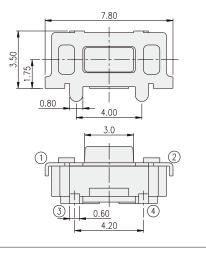


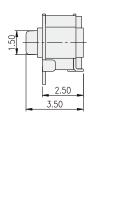


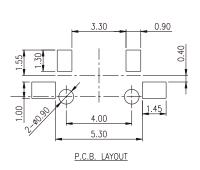
3.5x7 SMT & Side Push Type

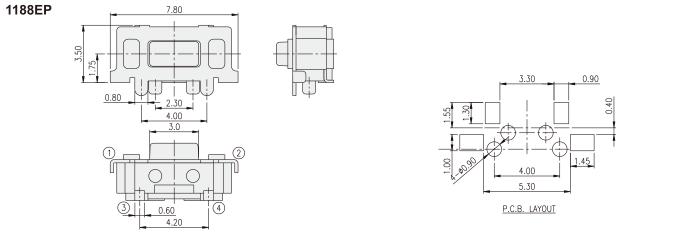








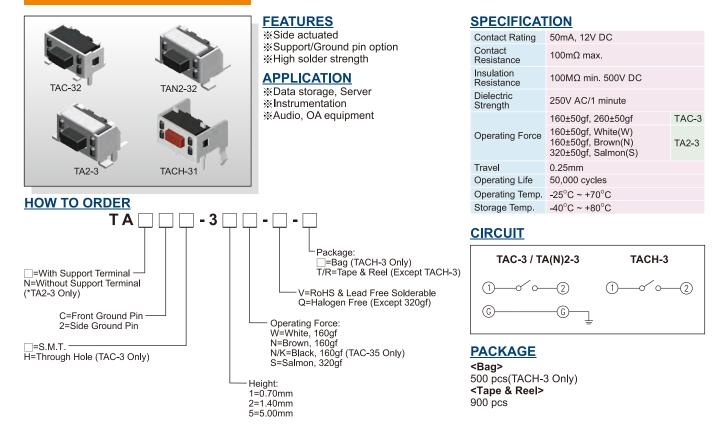




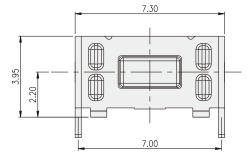


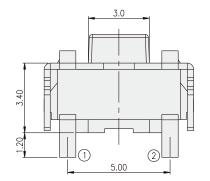
3.95x7.3 / 4.65x7.0 SMT & Side Push Type

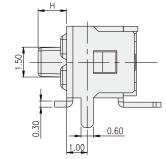




TAC-3







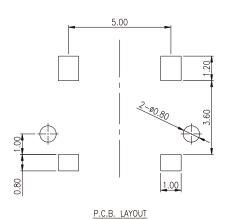
PART NO.

TAC-31

TAC-32 TAC-35 Н

0.70 1.40

5.00



TACT SWITCH

D-63 DIPTRONICS



3.95x7.3 / 4.65x7.0 SMT & Side Push Type

PART NO.

TA2-31

TA2-32

TA2-35

PART NO.

TAN2-31

TAN2-32

TAN2-35

Н

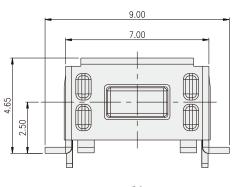
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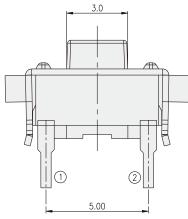
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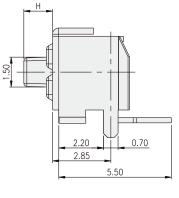
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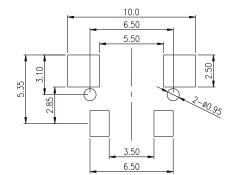


TA2-3



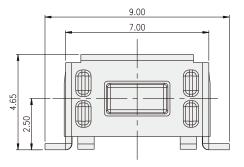


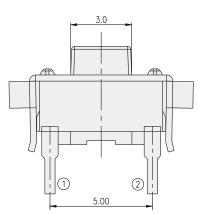


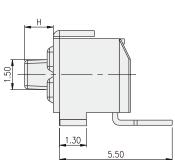


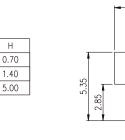
P.C.B. LAYOUT

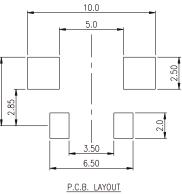
TAN2-3









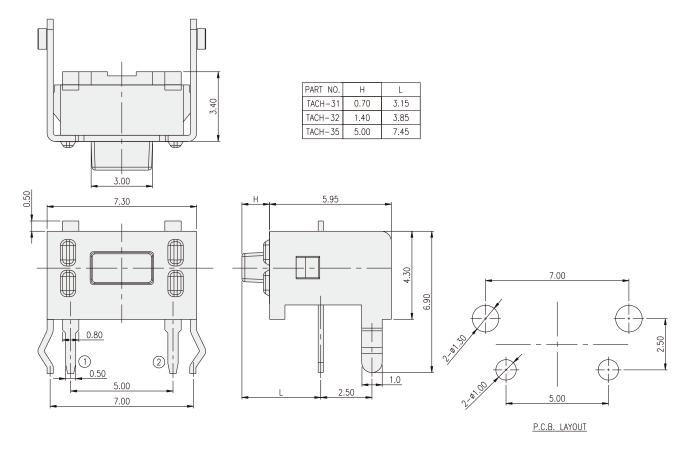




3.95x7.3 / 4.65x7.0 SMT & Side Push Type



TACH-3

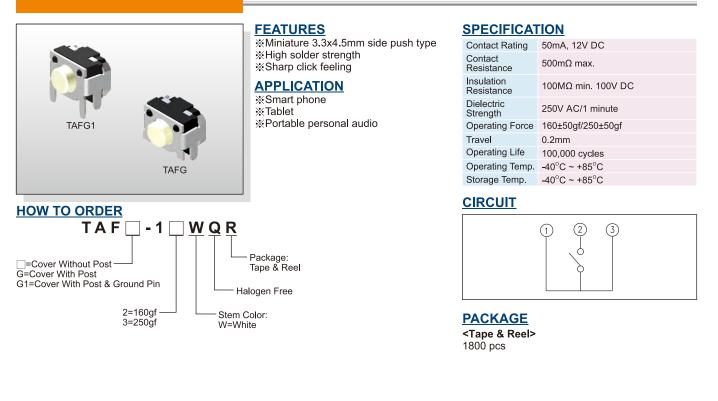


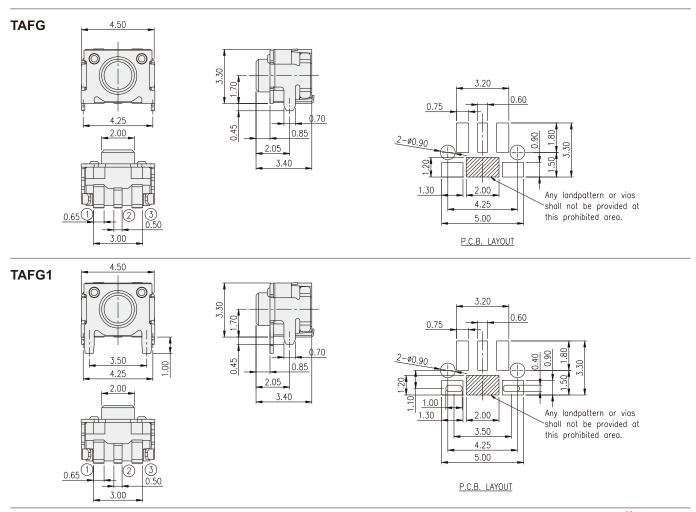
D-65 DIPTRONICS

TACT SWITCH TAF SERIES

3.3x4.5 Side Push Type







TACT SWITCH

1.8x4.5 Side Push Sealed Type

*Compact-sized 1.9x4.5mm

Digital camera, MedicalPortable electronic device

*Sealed with dust proof structure

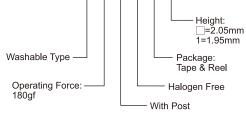
FEATURES

APPLICATION %Smart phone





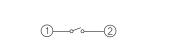
$\frac{HOW TO ORDER}{M TA 2 - W N C Q R}$



SPECIFICATION

Contact Rating	50mA, 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100M Ω min. 100V DC
Dielectric Strength	250V AC/1 minute
Operating Force	180±50gf
Travel	0.20mm
Operating Life	100,000 cycles
Operating Temp.	-30°C ~ +80°C
Storage Temp.	-40°C ~ +90°C

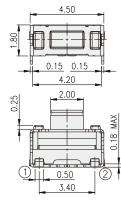
<u>CIRCUIT</u>

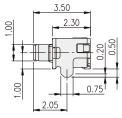


PACKAGE

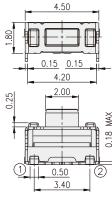
<Tape & Reel> 3000 pcs

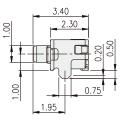
MTA2-WNCQR

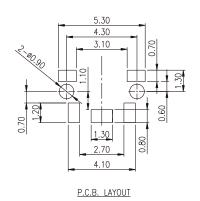


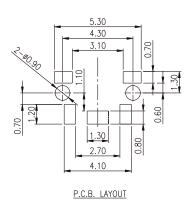


MTA2-WNCQR1



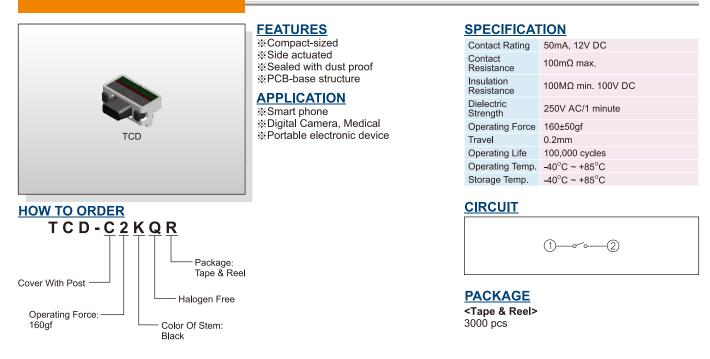


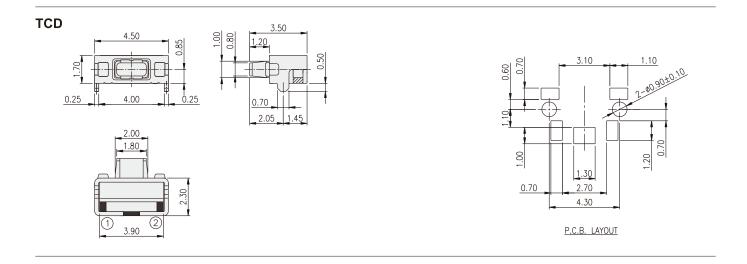




1.7x4.5 PCB Sealed Type Side Push



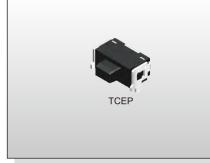




1.65x3.8 Sealed Side Push Type

FEATURES %1.65mm above PCB %High solder strength APPLICATION %Personal audio %Mobile phone %Audio, OA equipment





HOW TO ORDER T C E P Q R



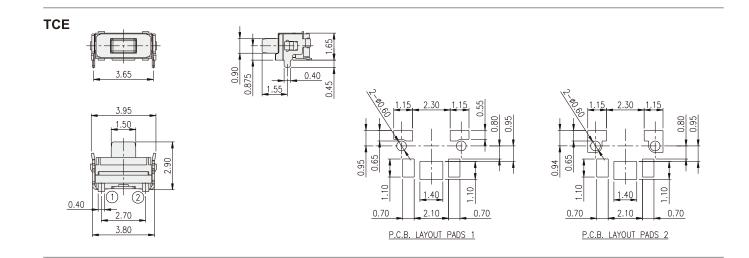
With



20mA, 12V DC
100mΩ max.
$100M\Omega$ min. $100V$ DC
250V AC/1 minute
160±50gf
0.2mm
100,000 cycles
-40°C ~ +85°C
-40°C ~ +90°C

<u>CIRCUIT</u>

1-0-2



TACT SWITCH T1C SERIES

2.8*1.95 Side Push Type Mid-mount Switch





HOW TO ORDER T 1 C Q R



Operating Force: 2=160gf

FEATURES Miniature 2.8*1.95mm *Side push mid-mount type %300,000 operation life cycles
%Better soldering peeling strength
%Height from surface of PCB:0.975mm

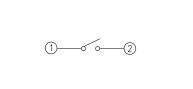
APPLICATION

%Smart phone %Portable electronic device%3C products

SPECIFICATION

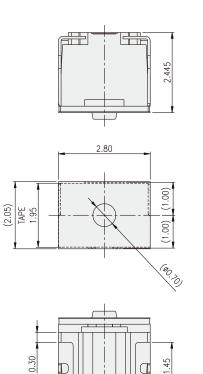
Contact Rating	10uA,2V DC to 20mA,15V DC
Contact Resistance	500mΩ max.
Insulation Resistance	50MΩ min. 100V DC
Dielectric Strength	250V AC/1 minute
Operating Force	160±50gf
Travel	0.13mm
Operating Life	300,000 cycles
Operating Temp.	-40°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

CIRCUIT



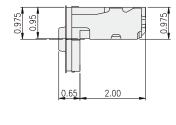
PACKAGE <Tape & Reel> 5000 pcs

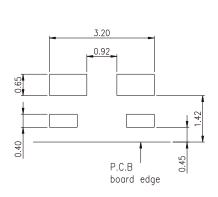
T1C



1.90 2.80 2

(1)





P.C.B. LAYOUT



TACT SWITCH

HOW TO ORDER

Operating Force: 2=160gf 3=240gf

TCF QR

TCF

2.9x4.5 Side Push Type Mid-mount Switch



FEATURES

Miniature 2.9x4.5mm
Side push mid-mount type
200,000 operating life cycles

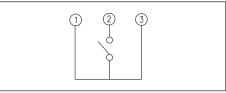
APPLICATION

Smart phonePortable personal audioDigital camera

SPECIFICATION

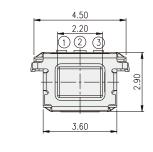
Contact Rating	10µA, 2V DC to 20mA, 15V DC
Contact Resistance	1000mΩ max.
Insulation Resistance	100MΩ min. 100V DC
Dielectric Strength	250V AC/1 minute
Operating Force	160±50gf/240±70gf
Travel	0.15mm
Operating Life	200,000 cycles
Operating Temp.	-40°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

<u>CIRCUIT</u>



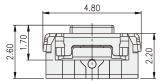
PACKAGE <Tape & Reel> 2400 pcs

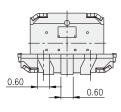
TCF

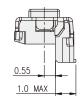


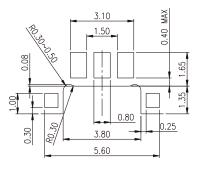
Package: Tape & Reel

Halogen Free









P.C.B. LAYOUT

D-71 DIPTRONICS

TACT SWITCH TCH SERIES

4.5*2.2 Side Push Type Mid-mount Switch





Package: Tape & Reel Halogen Free C=Without Post Operating Force: 2=160gf

тсн

%Miniature 4.5*2.2mm ℁Side push mid-mount type *600,000 operation life cycles

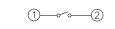
APPLICATION

*Portable personal audio ※Digital camera %3C products

SPECIFICATION

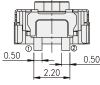
Contact Rating	50mA, 12V DC
Contact Resistance	500mΩ max.
Insulation Resistance	100M Ω min. 100V DC
Dielectric Strength	100V AC/1 minute
Operating Force	160±50gf
Travel	0.15mm
Operating Life	600,000 cycles
Operating Temp.	-30°C ~ +85°C
Storage Temp.	$-40^{\circ}C \sim +90^{\circ}C$

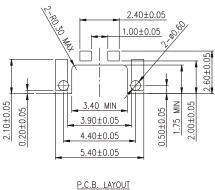
CIRCUIT



PACKAGE <Tape & Reel> 3000 pcs

2.60 2.10 18 2.40±0.05 1.00±0.05 È 2.20 8 色 1.10 F 2.60 ± 0.05 0.80 1.70 3.20 09.0 4.50 2.10±0.05 MIN 2.00±0.05 3.40 MIN 0.25±0.05 3.90±0.05 1.75 5.40±0.05 b 0 0.50 0.50 P.C.B. LAYOUT 2.20 тснс 2.60 2.10 2.10 2.40±0.05 09. B **1**000 حى .00±0.05 2.20 80 14 14 .10 -11-2.60±0.05 <u>0.5</u>0 3.20 0.45 0.10 4.50 1.70 0.80 Ŧ MIN 2.10±0.05 3.40 MIN 2.00±0.05 0.50±0.05 0.20±0.05 1.75 N 3.90±0.05 4.40±0.05

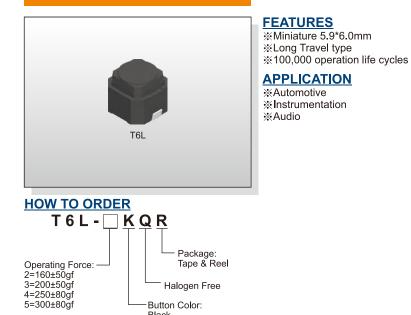




TACT SWITCH T6L SERIES

Long Travel SMT Type Tactile Switch





Button Color: Black

SPECIFICATION

Contact Rating	10uA,1V DC to 50mA,16V DC
Contact Resistance	100mΩ max. 500V DC
Insulation Resistance	100MΩ min. 100V DC
Dielectric Strength	250V AC/1 minute
Operating Force	160±50gf/200±50gf 250±80gf/300±80gf
Travel	1.3mm
Operating Life	100,000 cycles (160gf/200gf/250gf/300gf)
Operating Temp.	$-40^{\circ}C \sim +90^{\circ}C$
Storage Temp.	$-40^{\circ}C \sim +90^{\circ}C$

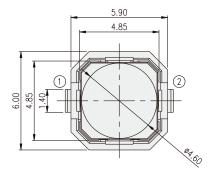
CIRCUIT

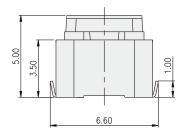
|--|

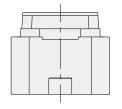
PACKAGE <Tape & Reel> 1200 pcs

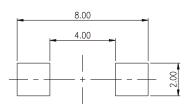
T6L

TACT SWITCH







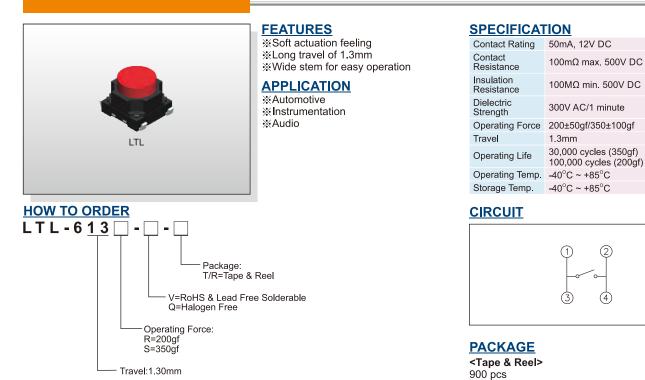


P.C.B. LAYOUT

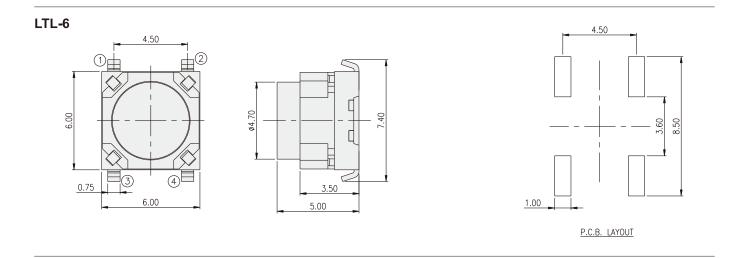
TACT SWITCH

Long Travel SMT Type Tactile Switch



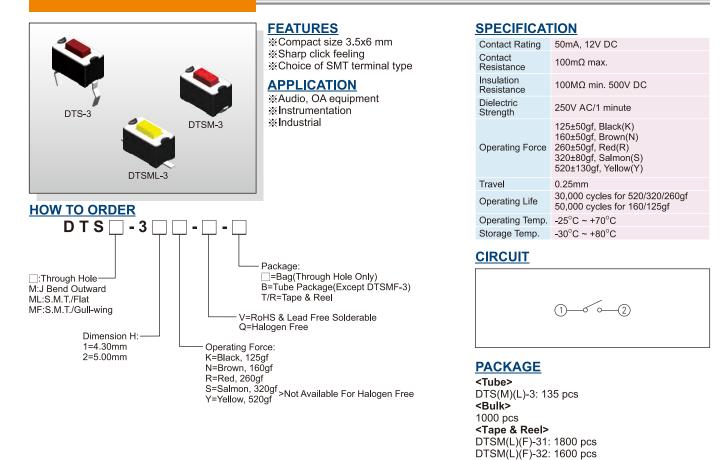


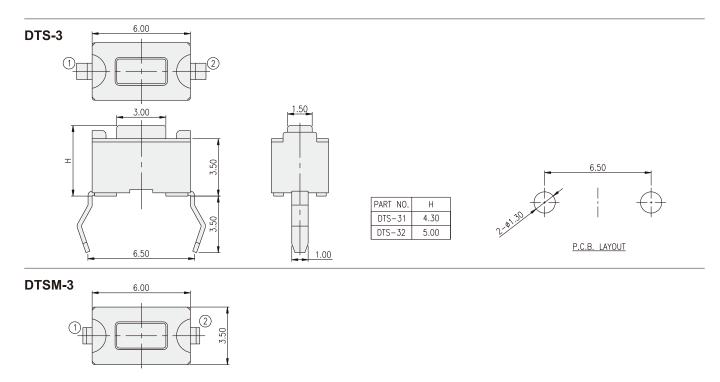
TACT SWITCH

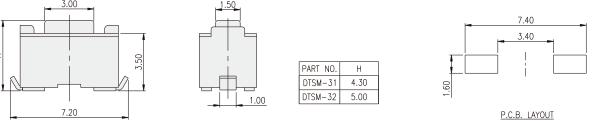


3.5x6 Through Hole & SMT Type Tactile Switch



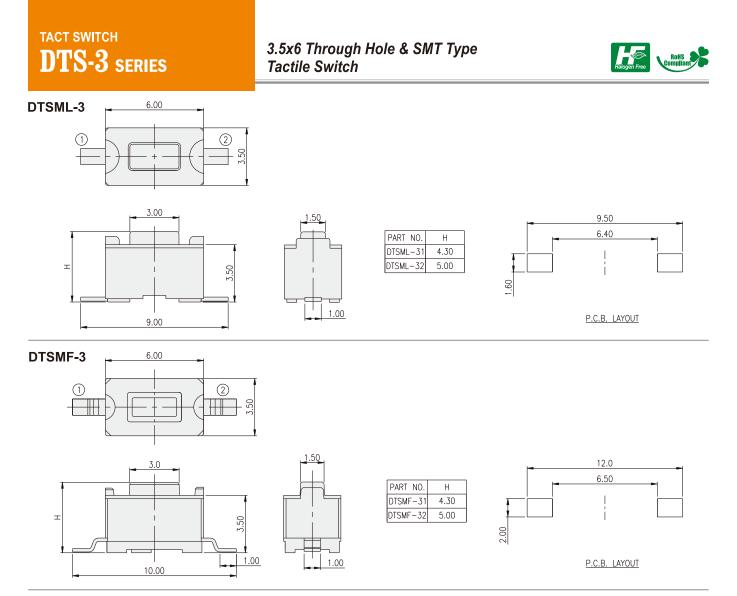






D-75 DIPTRONICS

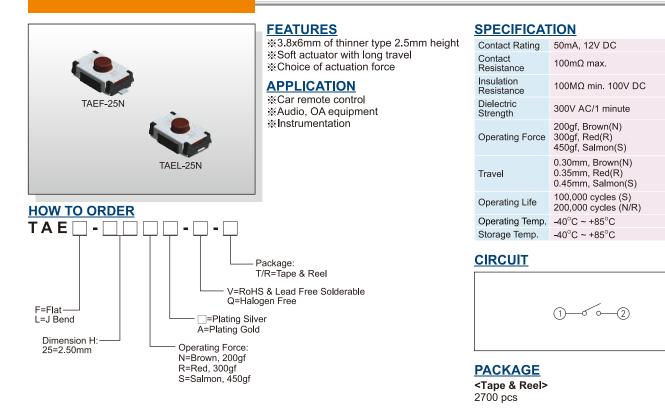
т

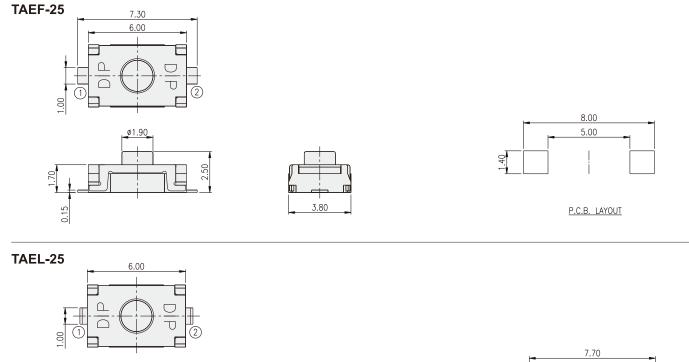


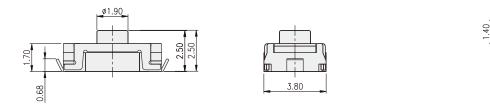
tact switch TAE series









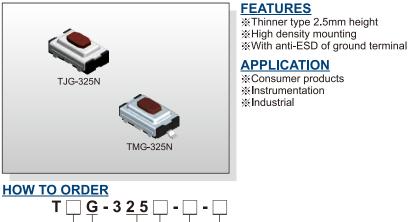




P.C.B. LAYOUT

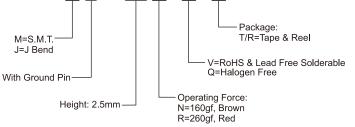
D-77 DIPTRONICS





3.7x6 Thinner Type

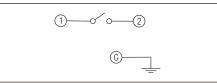
Tactile Switch



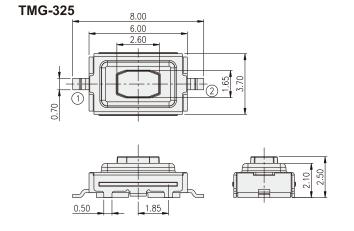
SPECIFICATION

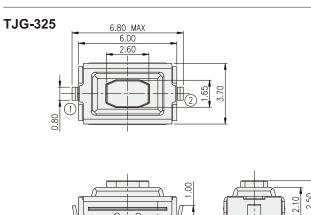
Contact Rating	50mA, 12V DC		
Contact Resistance	100mΩ max.		
Insulation Resistance	$100 M\Omega$ min. 500V DC		
Dielectric Strength	300V AC/1 minute		
Operating Force	160±50gf, Brown(N) 260±50gf, Red(R)		
Travel	0.25mm		
Operating Life	20,000 cycles for 260gf 50,000 cycles for 160gf		
Operating Temp.	-25°C ~ +70°C		
Storage Temp.	-30°C ~ +80°C		

CIRCUIT



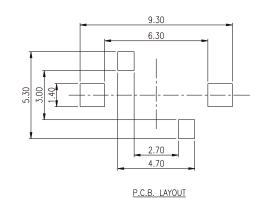
PACKAGE **<Tape & Reel>** 2800 pcs

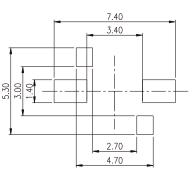




1.85

0.50





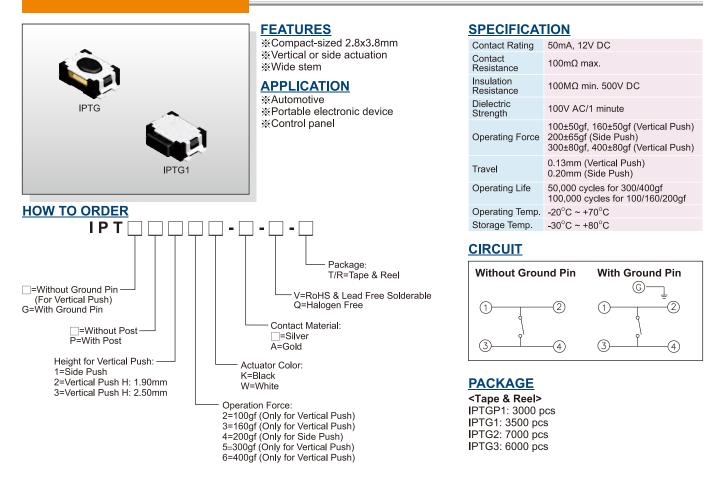
P.C.B. LAYOUT

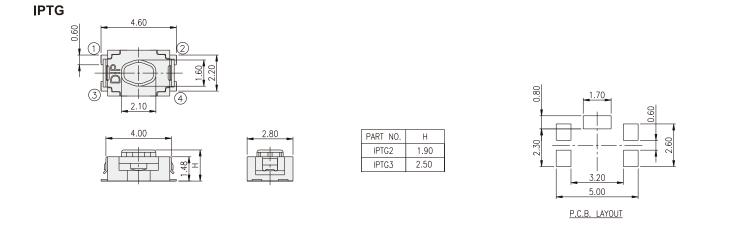
Rolls Complia

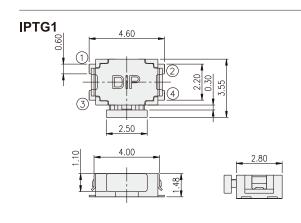
TACT SWITCH

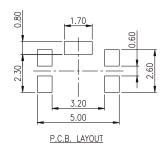
2.8x3.8 Side Push / Vertical Push Type











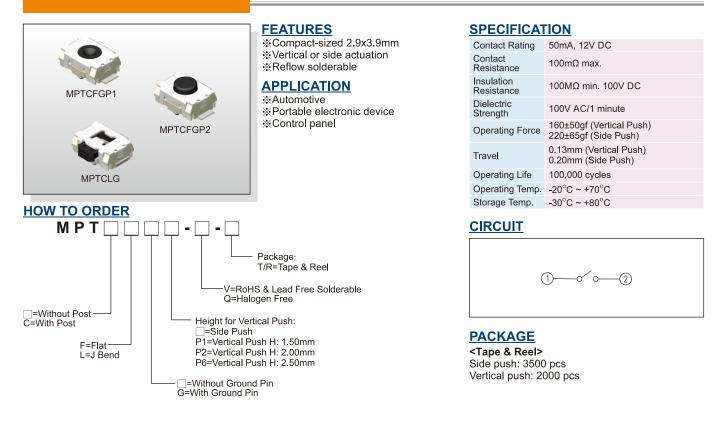
D-79 DIPTRONICS

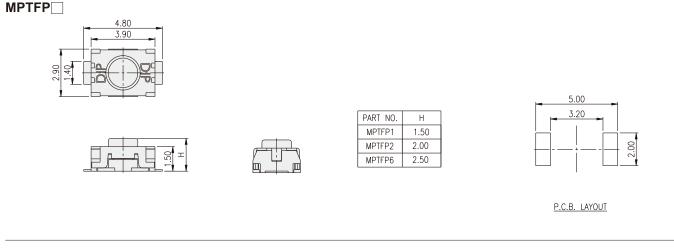
tact switch MPT series

2.9x3.9 Miniature Side Push / Vertical Push Type

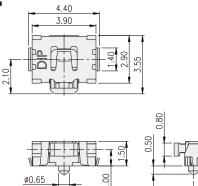


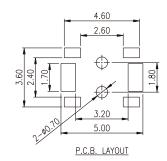
TACT SWITCH





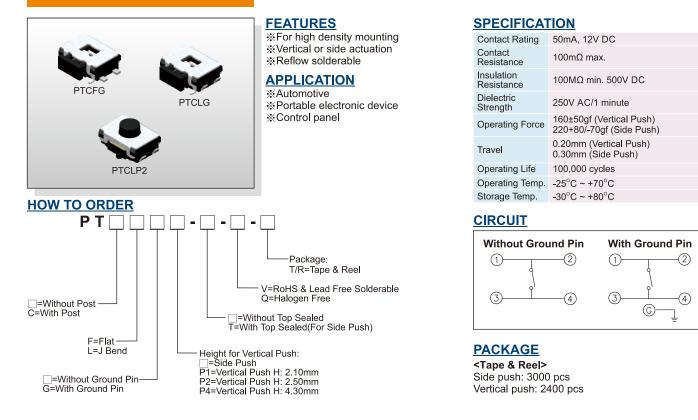
MPTCLG

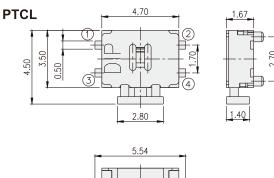


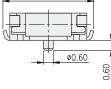


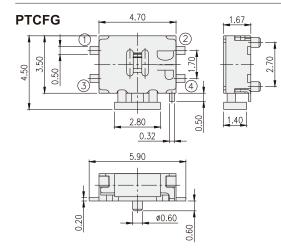
www.dip.com.tw

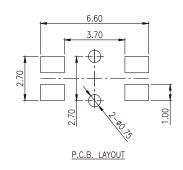


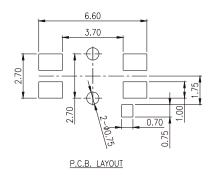








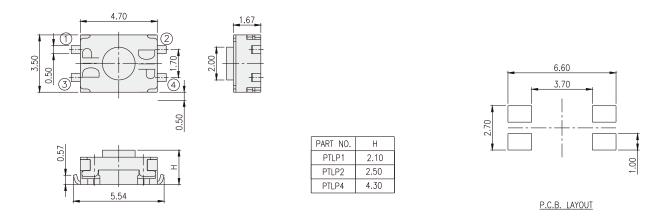




3.5x4.7 Side Push / Vertical Push Type



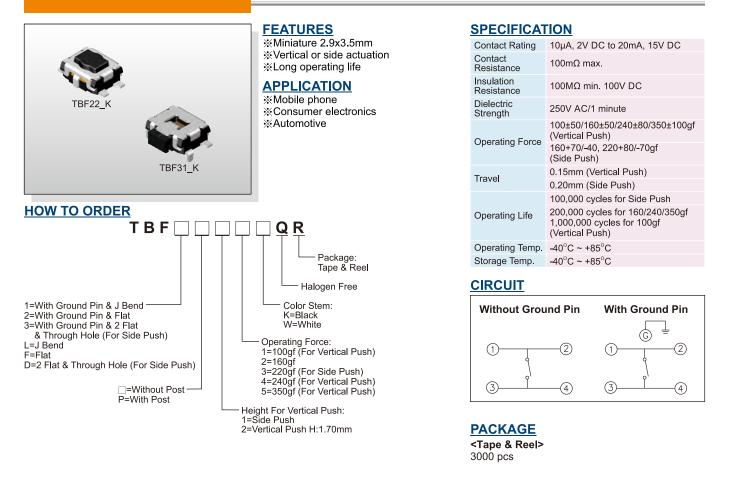
PTLGP

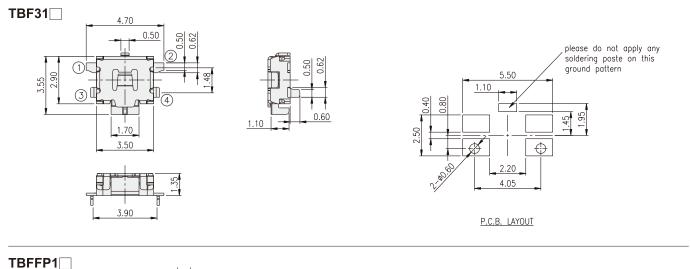


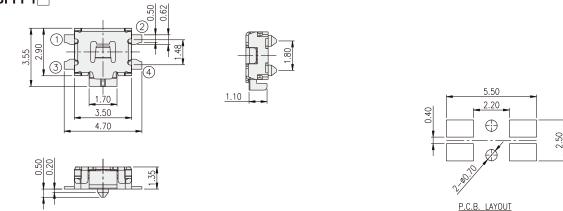
tact switch TBF series

2.9x3.5 Side Push / Vertical Push Type









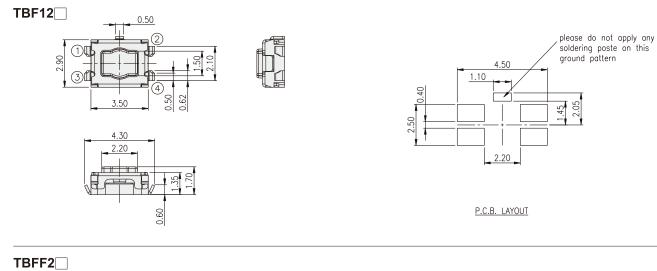
TACT SWITCH

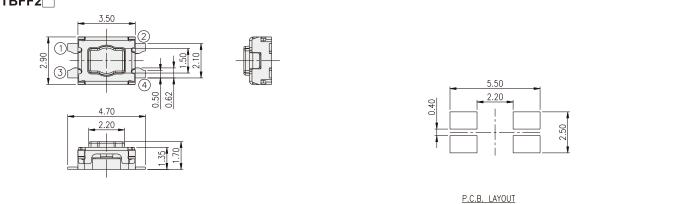
D-83 DIPTRONICS

TACT SWITCH

2.9x3.5 Side Push / Vertical Push Type



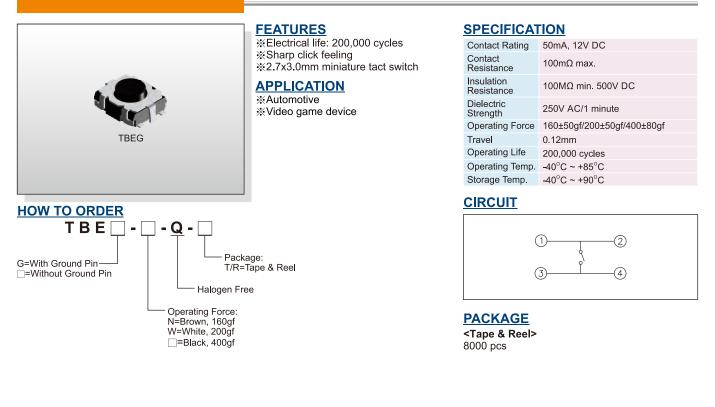


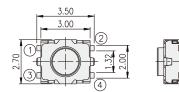


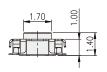
TACT SWITCH

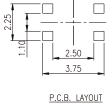
2.7x3.0 Vertical Push Type

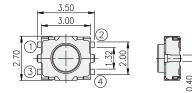




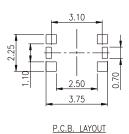










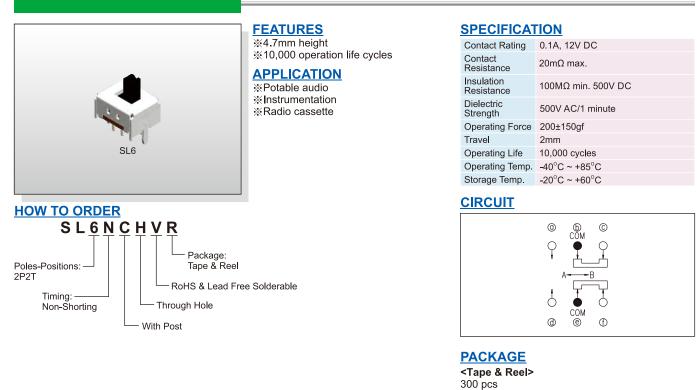




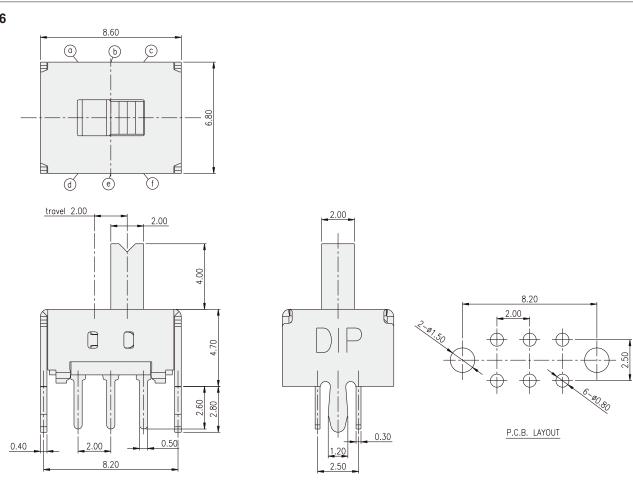
SLIDE SWITCH

Slide Type (2P2T)



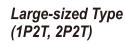






SLIDE SWITCH LSS SERIES

LSS12



FEATURES

%2.0mm stroke *Through hole or SMT *1P2T , 2P2T models

APPLICATION %Remote control

%Consumer electronics **%**Instrumentations

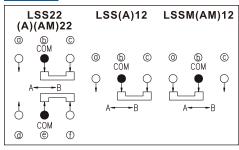
= Without Post(Except LSSM Type)
 P=Base With Post

SPECIFICATION

Contact Rating	0.1A, 12V DC
Contact Resistance	60mΩ max.
Insulation Resistance	100MΩ min. 500V DC
Dielectric Strength	500V AC/1 minute
Operating Force	200±150gf
Travel	2mm
Operating Life	10,000 cycles
Operating Temp.	-10°C ~ +60°C
Storage Temp.	-20°C ~ +70°C

RoHS Complian

CIRCUIT



PACKAGE

<Bag> LSS(A)12, 22: 1000 pcs <Tube> LSS 2, LSS 2M, LSS 2L: 50 pcs <Tape & Reel> LSS12, 22-N,P,S,Q,R: 900 pcs LSS12, 22-[],NL: 800 pcs LSS12, 12-40-P, 22[]-40: 800 pcs LSSM12-P, LSSM12-40-P: 800 pcs LSSM12: 1000 pcs LSSA(M)12, 22: 600 pcs LSSA(M)12, 22: 600 pcs LSSA12, 22M,L-P: 600 pcs LSSA12, 22R-P: 500 pcs

HOW TO ORDER ----Package: Slide Direction: B=Tube(Only for LSS) T/R=Tape & Reel V=RoHS & Lead Free Solderable Q=Halogen Free A=Vertical Through Hole Stem Direction: Poles-Positions: 12=1P2T 22=2P2T □=LSS(A) Stem in the Right LSS(A)M Stem in the Left C=LSS(A)M Stem in the Left LSS(A)M Stem in the Right

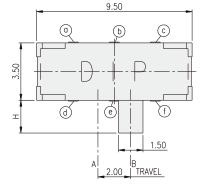
LSSA22

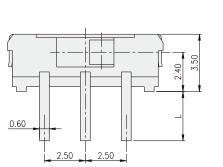
Terminal Length: _______ (Only for Through Hole) =3.00mm L=2.50mm M=2.20mm N=1.80mm Q=1.50mm R=1.20mm P=1.00mm S=0.90mm

Stem Length(Except LSSAM/LSSA Type): -=2.00mm 40=4.00mm 32=3.20mm

LSSAM22-C

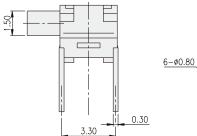
LSS22

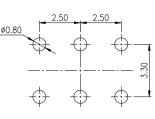




PART NO.	Н	PART NO.	L
LSS22	2.0	LSS22	3.0
LSS22-32	3.20	LSS22S	0.90
LSS22-40	4.0	LSS22P	1.0
		LSS22R	1.20

LSS22	3.0
LSS22S	0.90
LSS22P	1.0
LSS22R	1.20
LSS22Q	1.50
LSS22N	1.80
LSS22M	2.20
LSS22L	2.50

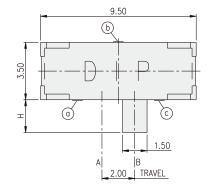




P.C.B. LAYOUT



LSS12

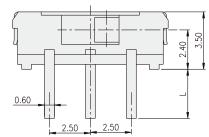


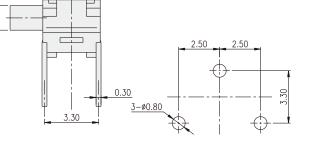
PART NO.	Н	PART NO.
LSS12	2.00	LSS12
LSS12-32	3.20	LSS12S
LSS12-40	4.00	LSS12P
		LSS12R
		LSS12Q
		LSS12N

1.50

	-	
LSS12	3.0	
LSS12S	0.90	
LSS12P	1.0	
LSS12R	1.20	
LSS12Q	1.50	
LSS12N	1.80	
LSS12M	2.20	
LSS12L	2.50	

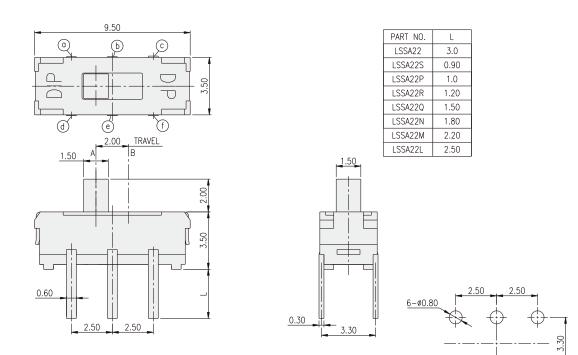
L





P.C.B. LAYOUT

LSSA22



P.C.B. LAYOUT

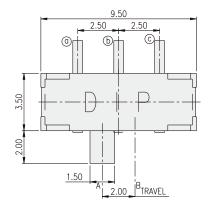
⊕

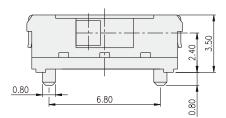
÷

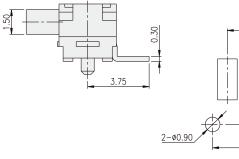
 \oplus

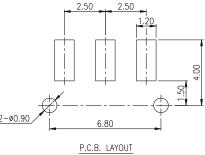


LSSM12-P

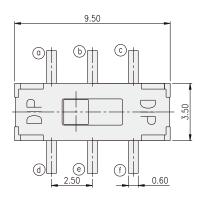


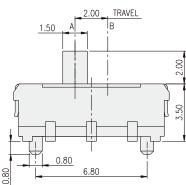


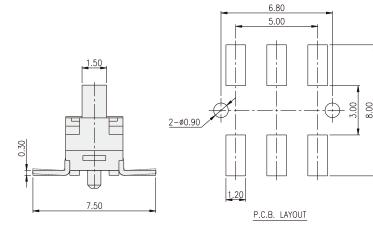




LSSAM22-P





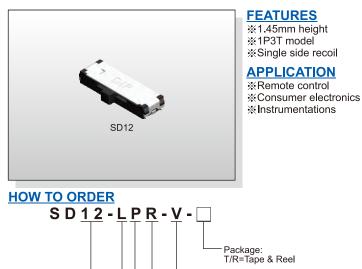


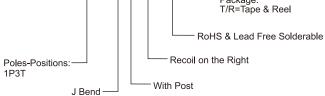
E-04 DIPTRONICS



Slide Type (1P3T)



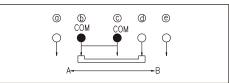




SPECIFICATION

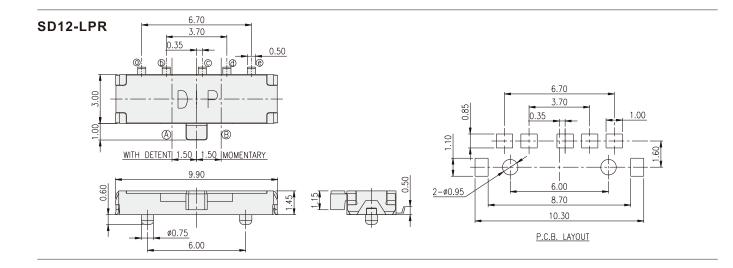
Contact Rating	0.3A, 15V DC
Contact Resistance	1Ω max.
Insulation Resistance	10MΩ min. 100V DC
Dielectric Strength	100V AC/1 minute
Operating Force	150±100gf
Travel	1.5mm
Operating Life	5, 000 cycles
Operating Temp.	-10°C ~ +60°C
Storage Temp.	-25°C ~ +85°C

CIRCUIT

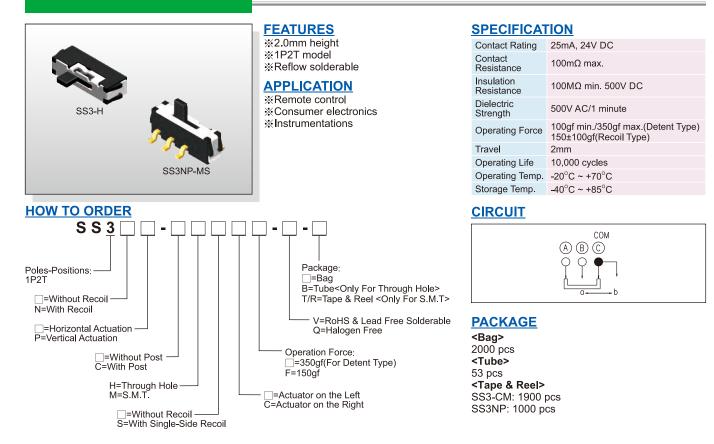


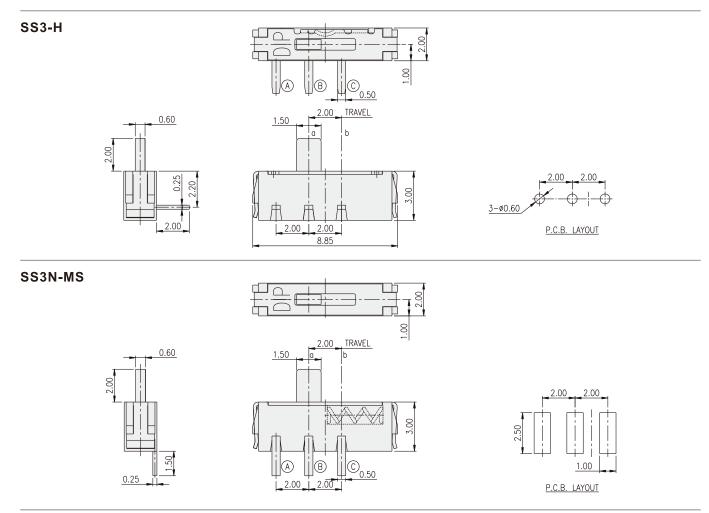
PACKAGE

<Tape & Reel> 3000 pcs





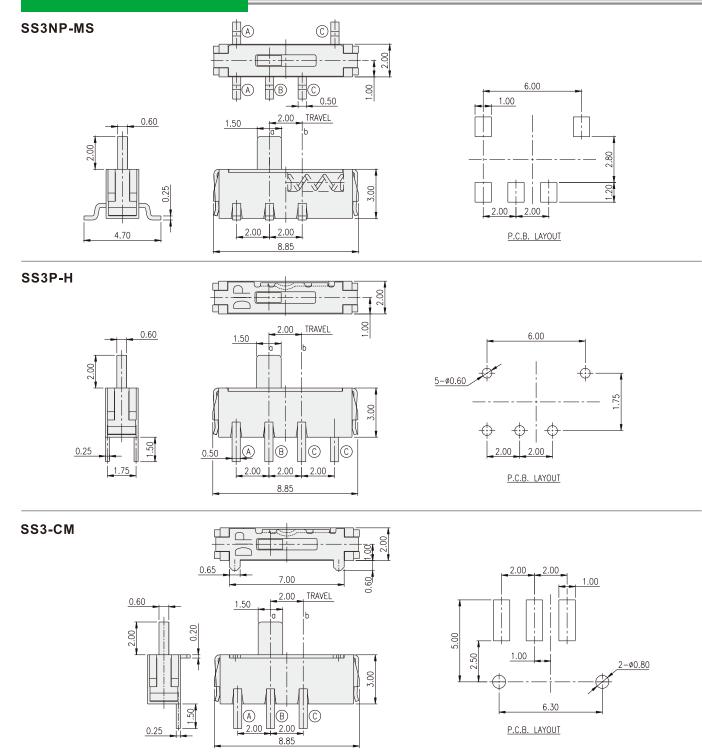




E-06 DIPTRONICS

Recoil & SMT Type (1P2T)

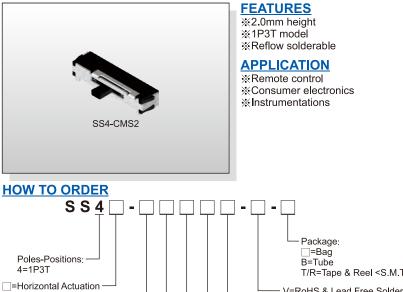




SLIDE SWITCH SS4 SERIES

Recoil & SMT Type (1P3T)

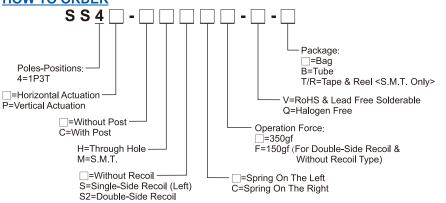




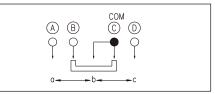
SPECIFICATION

Contact Rating	25mA, 24V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100M Ω min. 500V DC
Dielectric Strength	500V AC/1 minute
Operating Force	100gf min./350gf max.(Detent Type) 150±100gf (Recoil Type)
Travel	2mm
Operating Life	10,000 cycles
Operating Temp.	-20°C ~ +70°C
Storage Temp.	-40°C ~ +85°C

CIRCUIT

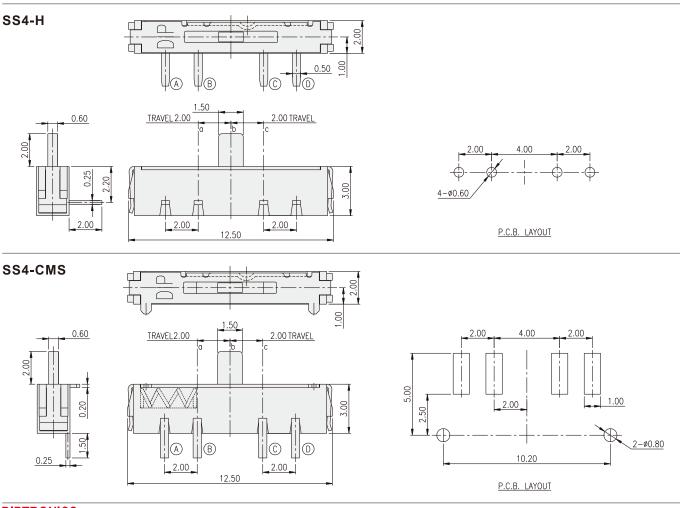


□=Spring On The Left C=Spring On The Right



PACKAGE

<Bag> 1500 pcs <Tube> 38 pcs <Tape & Reel> 1900 pcs

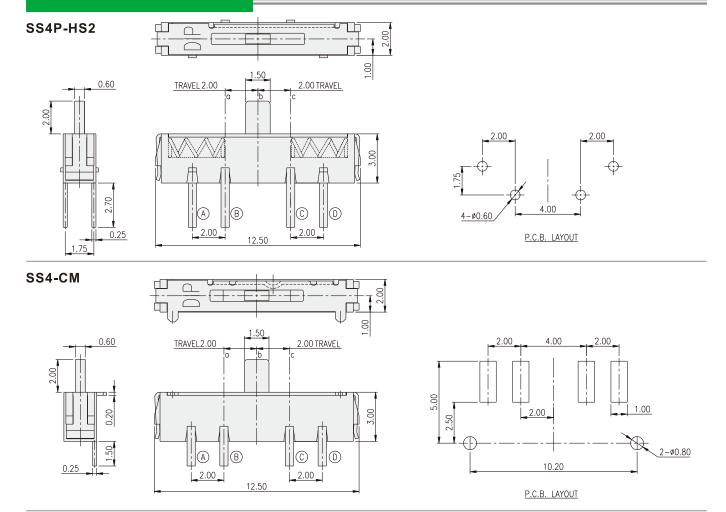


E-08 DIPTRONICS

SLIDE SWITCH

Recoil & SMT Type (1P3T)







Miniature & SMT Type (1P2T, 1P3T)





-

Poles-Positions: 3=1P2T 4=1P3T

Package: T/R=Tape & Reel

V=RoHS & Lead Free Solderable Q=Halogen Free

Image: Second Seco

HOW TO ORDER M S S 🗌 🗌 - |

FEATURES

⅔1.4mm height *1P2T, 1P3T models Stroke 1.5mm

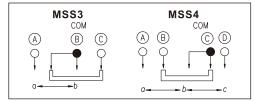
APPLICATION

*Remote control *Consumer electronics **※**Instrumentations

SPECIFICATION

Contact Rating	25mA , 24V DC	
Contact Resistance	70mΩ max	
Insulation Resistance	100MΩ min. 100V DC	
Dielectric Strength	100V AC/1 minute	
Operating Force	150±100gf (1.47N±0.98N)	MSS3
	A→B 150±100gf (1.47N±0.98N) C→B 150±100gf (1.47N±0.98N) B→C 200±150gf (1.96N±1.47N) B→A 200±150gf (1.96N±1.47N)	MSS4
Travel	1.5mm	
Operating Life	10, 000 cycles	
Operating Temp.	-20°C ~ +70°C	
Storage Temp.	-40°C ~ +85°C	

CIRCUIT



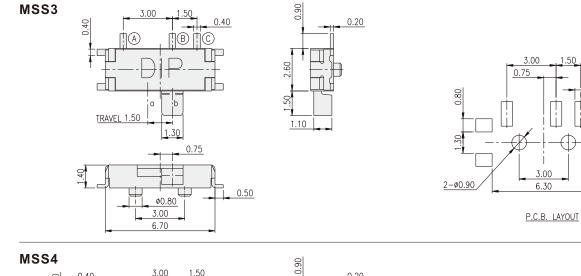
1.50

1

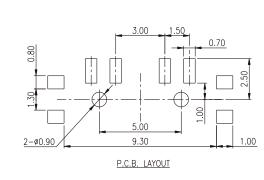
0.70

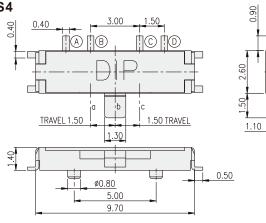
1.00

PACKAGE <Tape & Reel> 2500 pcs



0.20

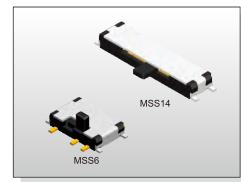






Miniature Travel & SMT Type (2P2T, 1P4T)





-

Poles-Positions: 6=2P2T 14=1P4T

Package: T/R=Tape & Reel

V=RoHS & Lead Free Solderable Q=Halogen Free

HOW TO ORDER M S S 🗔 - [

MSS14

0.40

1.45

1.50

ЮП B ©[b ©[Ð

FEATURES

⅔1.4mm height *2P2T, 1P4T models X Stroke 1.5mm

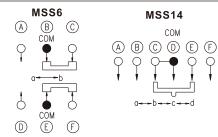
APPLICATION

*Remote control *Consumer electronics *Instrumentations

SPECIFICATION

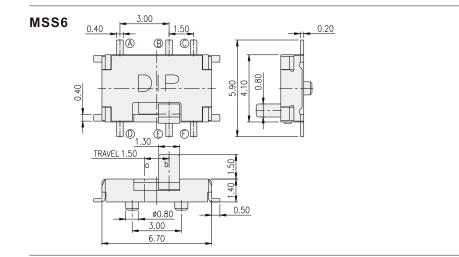
Contact Rating	25mA , 24V DC	
Contact Resistance	70mΩ max	
Insulation Resistance	100MΩ min. 100V DC	
Dielectric Strength	100V AC/1 minute	
	200±150gf (1.96N±1.47N)	MSS6
Operating Force	$\begin{array}{l} A \! \rightarrow \! B \ 150 \! \pm \! 100 \! gf \ (1.47 N \! \pm \! 0.98 N) \\ D \! \rightarrow \! C \ 150 \! \pm \! 100 \! gf \ (1.47 N \! \pm \! 0.98 N) \\ B \! \rightarrow \! C \ 200 \! \pm \! 150 \! gf \ (1.96 N \! \pm \! 1.47 N) \\ C \! \rightarrow \! D \ 200 \! \pm \! 150 \! gf \ (1.96 N \! \pm \! 1.47 N) \\ C \! \rightarrow \! B \ 200 \! \pm \! 150 \! gf \ (1.96 N \! \pm \! 1.47 N) \\ B \! \rightarrow \! A \ 200 \! \pm \! 150 \! gf \ (1.96 N \! \pm \! 1.47 N) \end{array}$	MSS14
Travel	1.5mm	
Operating Life	10, 000 cycles	
Operating Temp.	-20°C ~ +70°C	
Storage Temp.	-40°C ~ +85°C	

CIRCUIT



PACKAGE <Tape & Reel>

MSS6: 1400 pcs MSS14: 2500 pcs



0.90

20

0.50

0.20

0.40

0.40

ľP

ПЬ

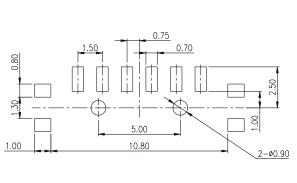
0.75

1.30

a b c 1.50

ø0.80 5.00 11.30

3.00 0.75 .50 0.70 0.80 Ľ 6.60 .80 .60 1.00 3.00 2-ø0.90 6.30 P.C.B. LAYOUT



P.C.B. LAYOUT

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Slide Type (1P2T)



50mΩ max.

2.5mm

 \bigcirc

10, 000 cycles

B COM

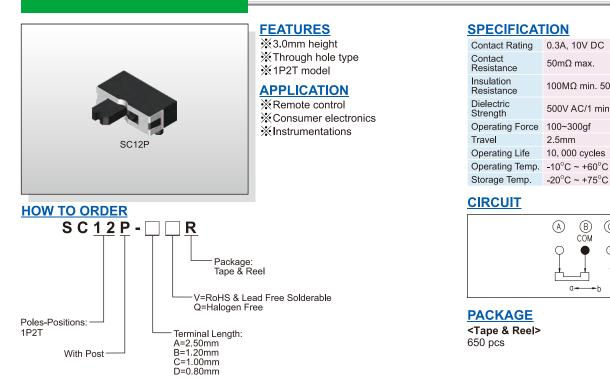
0-

 \bigcirc

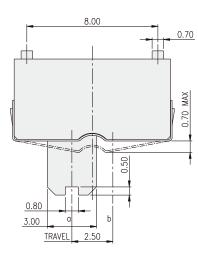
 \cap

100MΩ min. 500V DC

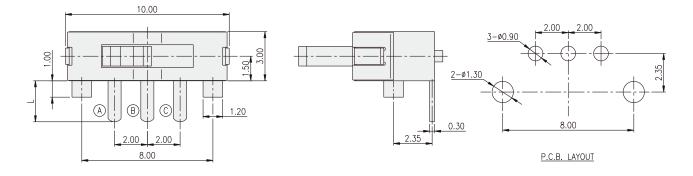
500V AC/1 minute



SC12P



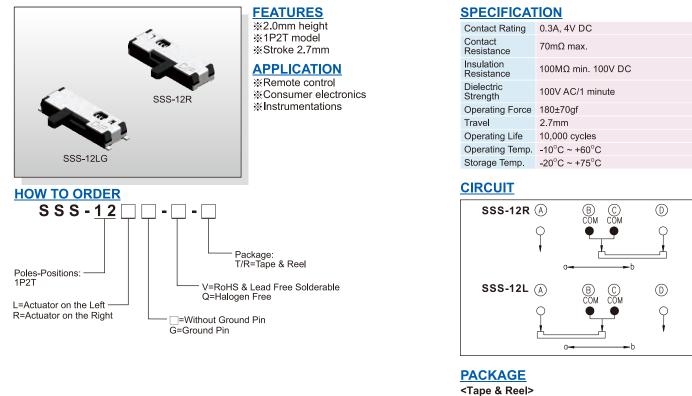
PART NO.	L
SC12P-A	2.50
SC12P-B	1.20
SC12P-C	1.00
SC12P-D	0.80



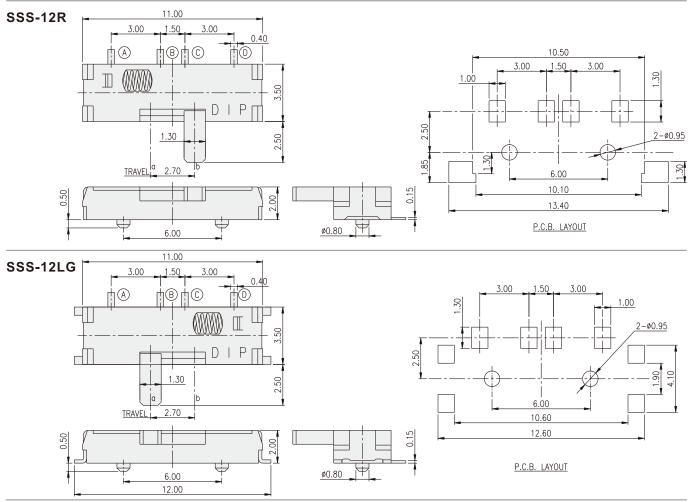
SLIDE SWITCH







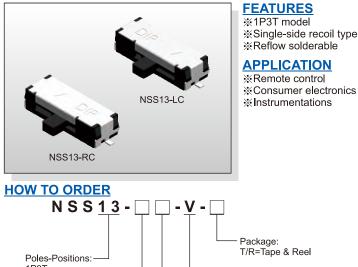
<Tape & Ree 2000 pcs

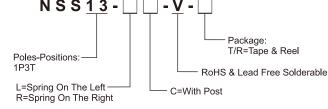


SLIDE SWITCH NSS series





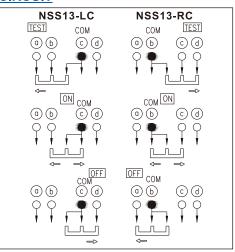




SPECIFICATION

Contact Rating	0.3A, 4V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩ min. 500V DC
Dielectric Strength	500V AC/1 minute
Operating Force	320±150gf (ON-TEST) 320±150gf (OFF-ON) 500+100/-200gf (ON-OFF)
Travel	2mm (ON-TEST) 4mm (OFF-ON) 4mm (ON-OFF)
Operating Life	10, 000 cycles
Operating Temp.	-20°C ~ +70°C
Storage Temp.	-40°C ~ +85°C

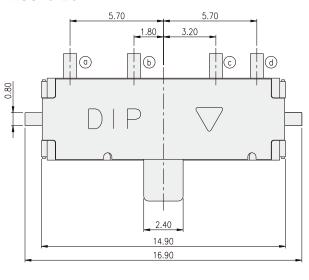
CIRCUIT

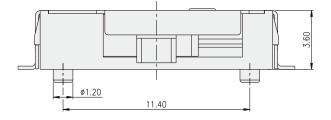


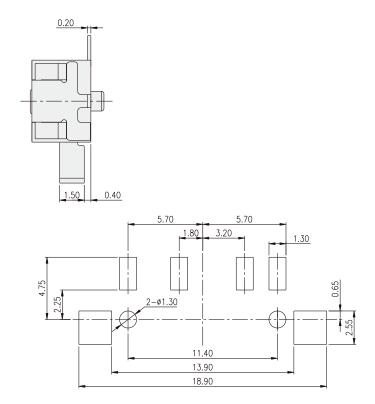
SLIDE SWITCH

PACKAGE <Tape & Reel> 800 pcs

NSS13-LC





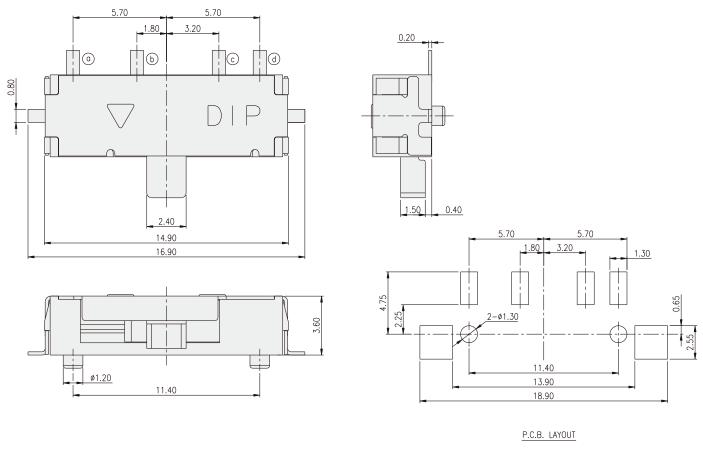


P.C.B. LAYOUT

E-14 DIPTRONICS

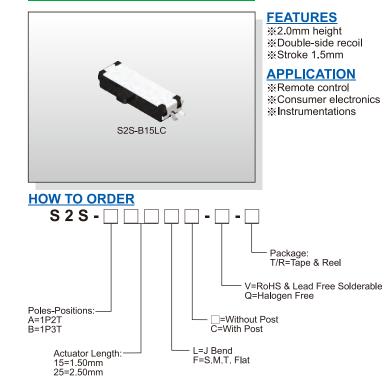


NSS13-RC



Double-Side Recoil Type (1P2T, 1P3T)

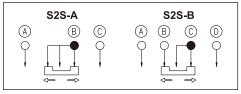




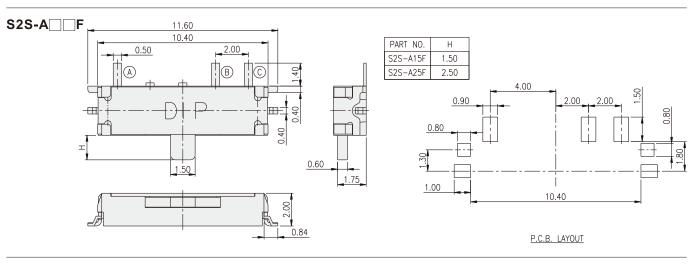
SPECIFICATION

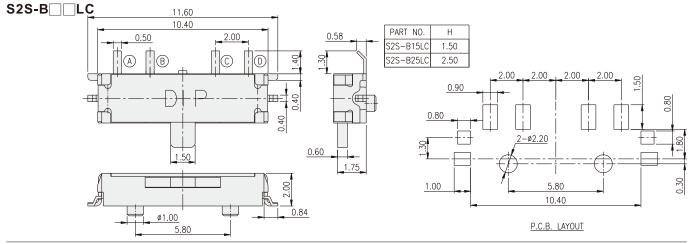
Contact Rating	300mA, 4V DC
Contact Resistance	70mΩ max.
Insulation Resistance	100MΩ min. 100V DC
Dielectric Strength	100V AC/1 minute
Operating Force	100±50gf
Travel	1.5mm
Operating Life	50, 000 cycles
Operating Temp.	-30°C ~ +80°C
Storage Temp.	-40°C ~ +90°C

CIRCUIT



PACKAGE <Tape & Reel> 2000 pcs

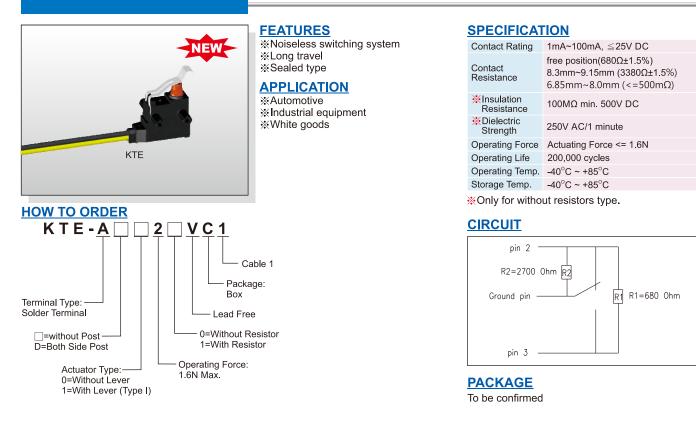




E-16 DIPTRONICS



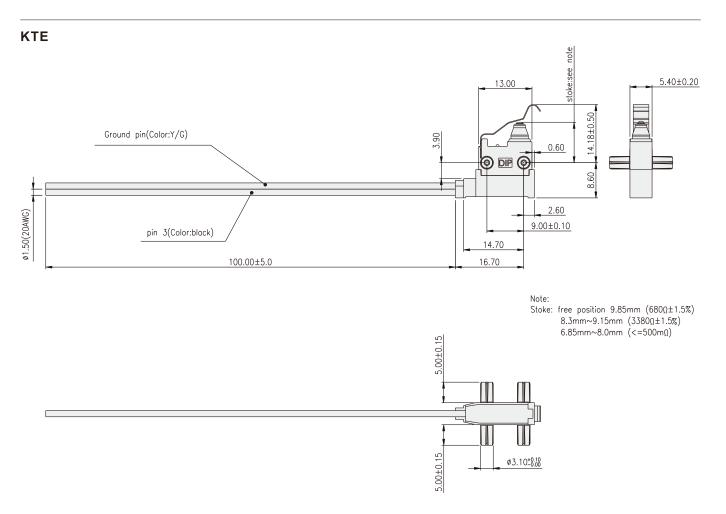




Detector

Vertical Type





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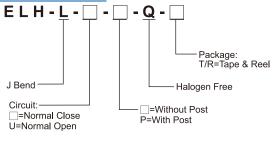
DETECTOR SWITCH ELH SERIES

Detector Miniature Type (3.3x3.5mm)





HOW TO ORDER



FEATURES

Compact sizeTwo-way operationHalogen Free

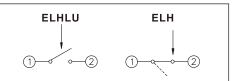
APPLICATION

Digital cameraNotebookAutomotive

SPECIFICATION

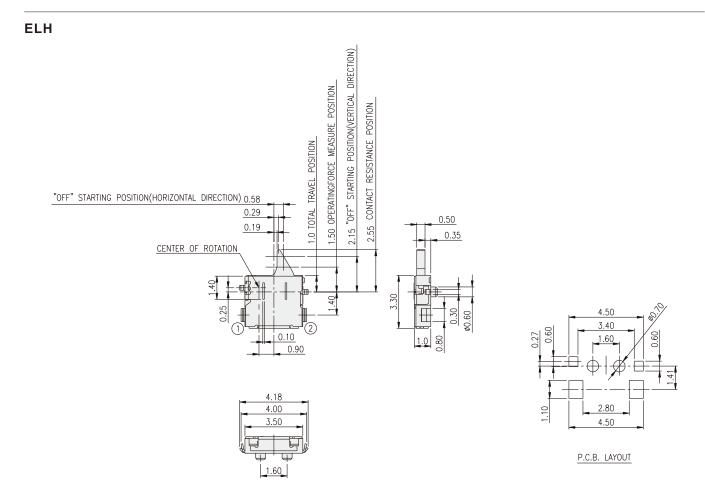
Contact Rating	50µA, 3V DC min. 1mA, 5V DC max.
Contact Resistance	2Ω max.
Insulation Resistance	100M Ω min. 100V DC
Dielectric Strength	100V AC/1 minute
Operating Force	35gf max.
Travel	1.15mm
Operating Life	50,000 cycles
Operating Temp.	-10°C ~ +60°C
Storage Temp.	-40°C ~ +85°C

CIRCUIT



PACKAGE <Tape & Reel> 3500 pcs

DETECTOR SWITCH

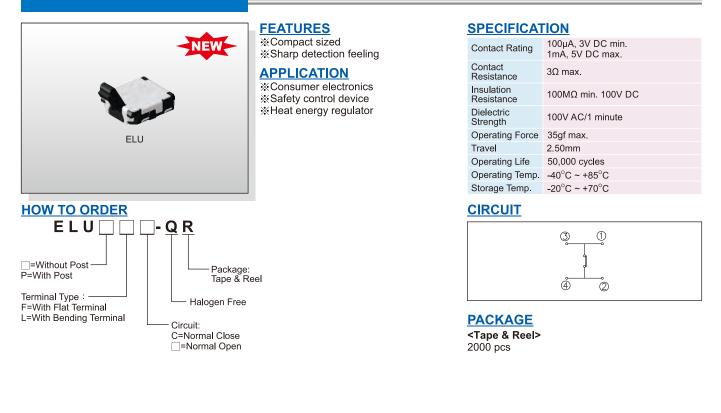


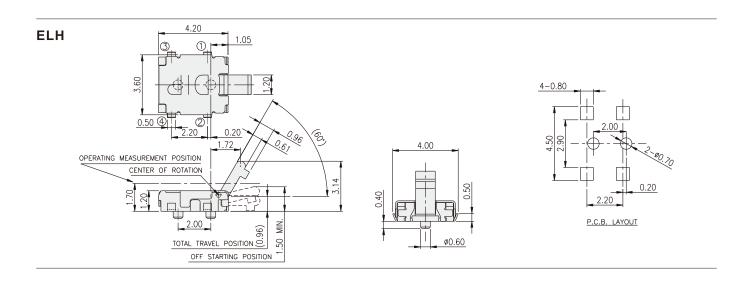
F-02 DIPTRONICS

DETECTOR SWITCH ELU SERIES

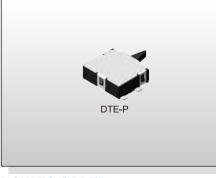
Detector Vertical Type



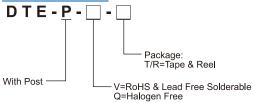








HOW TO ORDER



FEATURES

Compact size
 Two-way operation, auto return
 Circuit type: Normally open

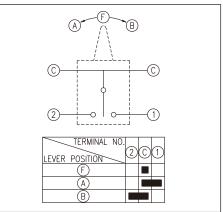
APPLICATION

Detecting opening/ closing of DSC cover
 Computer peripheral
 Instruments

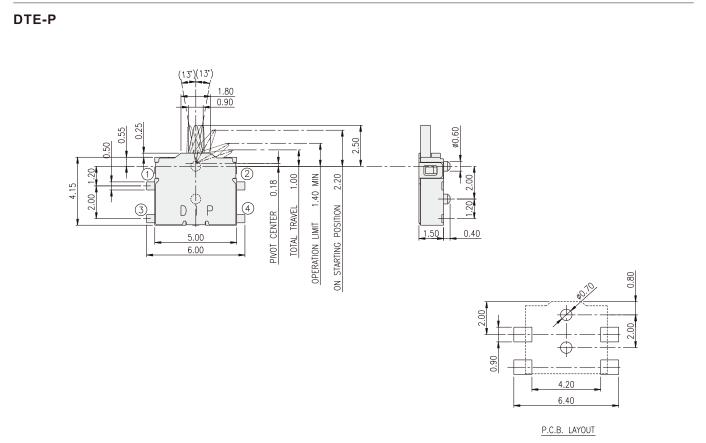
SPECIFICATION

Contact Rating	10mA, 5V DC
Contact Resistance	500mΩ max.
Insulation Resistance	100MΩ min. 100V DC
Dielectric Strength	100V AC/1 minute
Operating Force	30gf max.
Travel	1.5mm
Operating Life	100,000 cycles
Operating Temp.	-10°C ~ +60°C
Storage Temp.	-40°C ~ +70°C

<u>CIRCUIT</u>

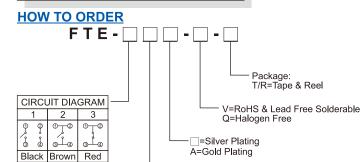


PACKAGE <Tape & Reel> 3800 pcs













%Sharp detection feeling

APPLICATION %Detection of car audio mechanism %Smoke detector Notebook

SPECIFICATION

Contact Rating	1mA, 5V DC
Contact Resistance	1Ω max.
Insulation Resistance	100MΩ min. 100V DC
Dielectric Strength	100V AC/1 minute
Operating Force	105gf max.
Travel	2.0mm
Operating Life	100,000 cycles
Operating Temp.	-10°C ~ +60°C
Storage Temp.	-40°C ~ +85°C

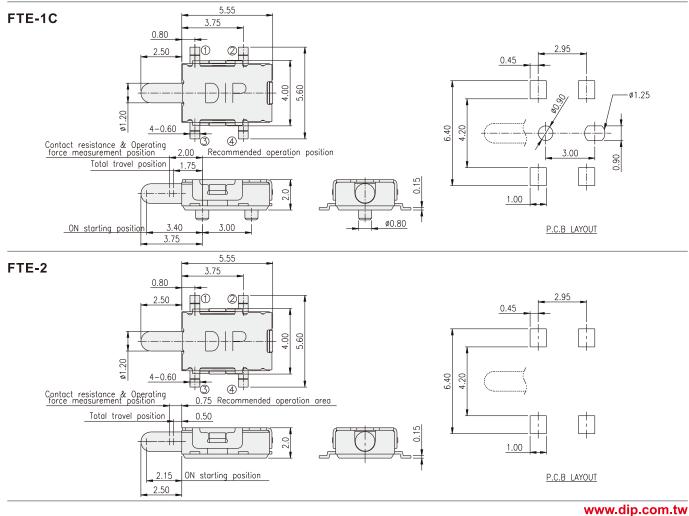
RoHS Compliant

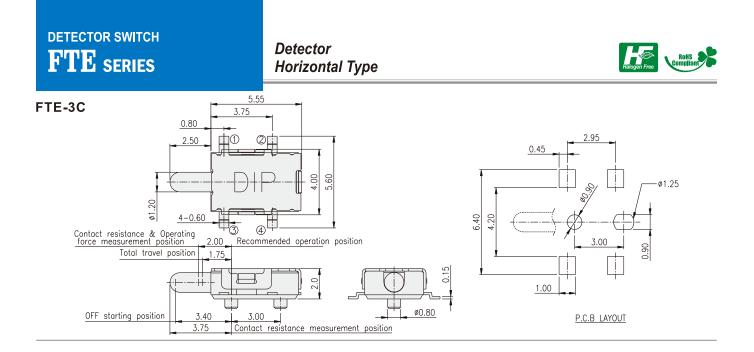
CIRCUIT

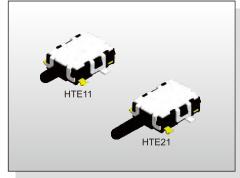
FTE-1	FTE-2	FTE-3
12	1-2	1-2
	Å	þ
3 4	3-4	3-4

PACKAGE

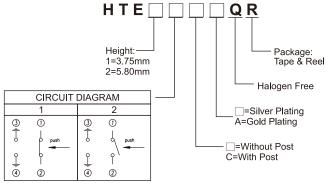
<Tape & Reel> 3000 pcs







HOW TO ORDER



Detector Horizontal Type

※Ultra-low profile with 2.0mm
※Sharp detection feeling

APPLICATION %Detection of car audio mechanism

FEATURES

%Smoke detector %Notebook

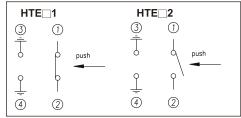
%Industrial application %3C products



SPECIFICATION

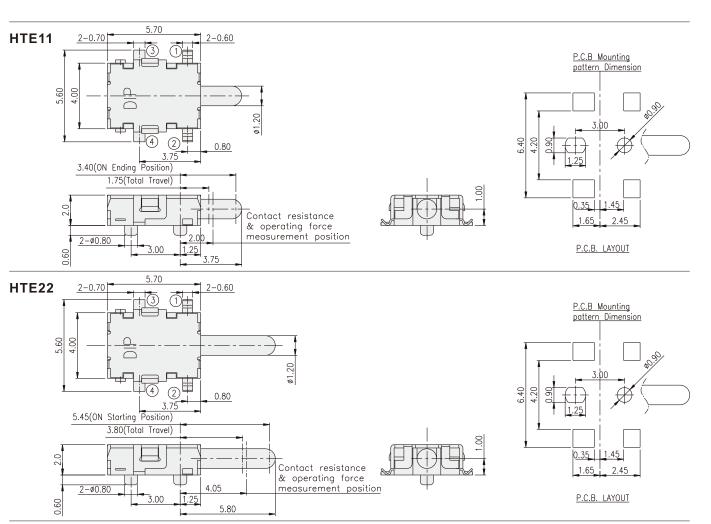
Contact Rating	10mA, 5V DC
Contact Resistance	1Ω max.
Insulation Resistance	100M Ω min. 100V DC
Dielectric Strength	100V AC/1 minute
Operating Force	150gf max.
Travel	2.0mm
Operating Life	100,000 cycles
Operating Temp.	-10°C ~ +60°C
Storage Temp.	-20°C ~ +70°C

<u>CIRCUIT</u>



PACKAGE

<Tape & Reel> 3000 pcs

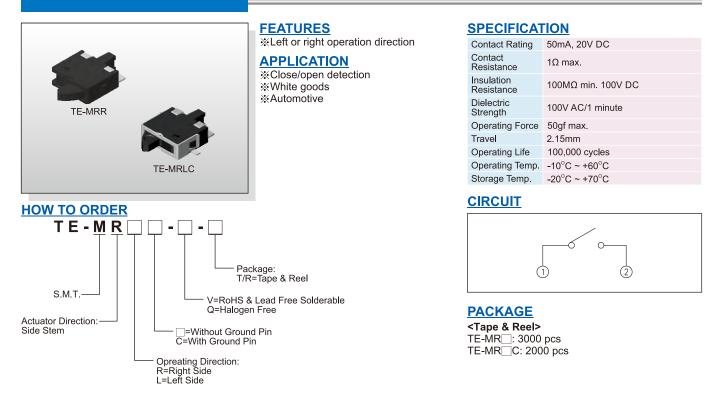


DETECTOR SWITCH



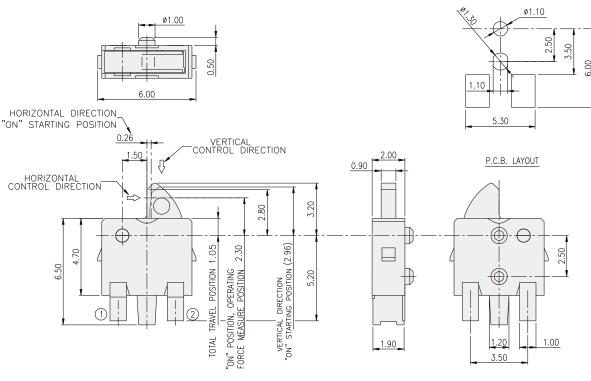
Detector Horizontal Type





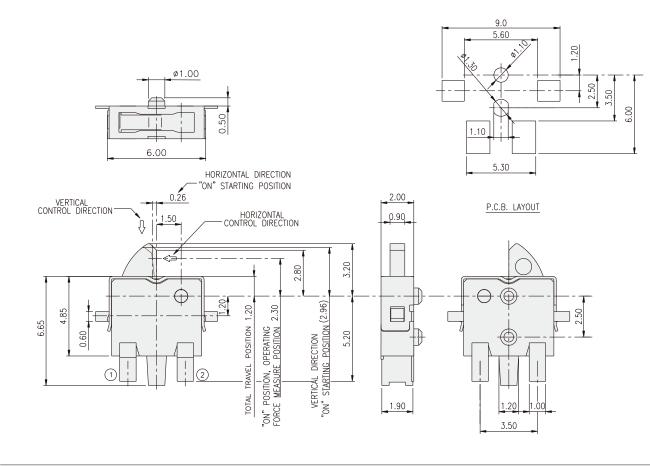


TE-MRR





TE-MRLC

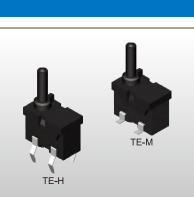


DETECTOR SWITCH

HOW TO ORDER

M=S.M.T. H=Through Hole

TE-__-



Detector Vertical Type



FEATURES

Package: _=Tube T/R=Tape & Reel (S.M.T. Only)

V=RoHS & Lead Free Solderable Q=Halogen Free

Stem Type: =Standard (H:8.40mm) L=High Actuator (H:10.70mm)

Compact sizeSMT & Through hole type availableDifferent stem height for option

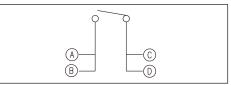
APPLICATION %DVD Players, CD-ROMs

DVD Players, CD-RO
 Automotive
 Telecommunication

SPECIFICATION

5mA, 5V DC
500mΩ max.
100MΩ min. 250V DC
250V AC/1 minute
35gf max.
2mm
50,000 cycles
-20°C ~ +70°C
-30°C ~ +80°C

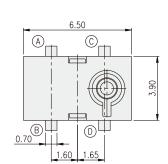
<u>CIRCUIT</u>

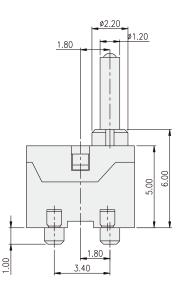


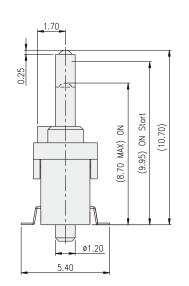
PACKAGE

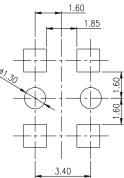
<Tube> 72 pcs <Tape & Reel> TE-M: 500 pcs TE-ML: 400 pcs

TE-ML







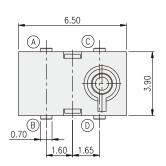


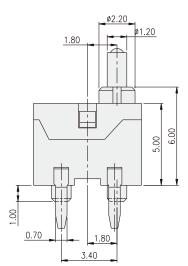
P.C.B. LAYOUT

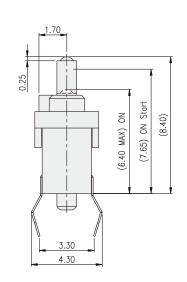
F-10 DIPTRONICS

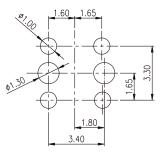


TE-H









P.C.B. LAYOUT

DETECTOR SWITCH

FEATURES

%Guiding post offers easy orientation %Long travel 2.5mm %100,000 Operation life cycles

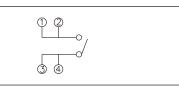
APPLICATION *Consumer electronics

Consumer electronics
 Medical devices
 Open/close detection
 NB power off function

SPECIFICATION

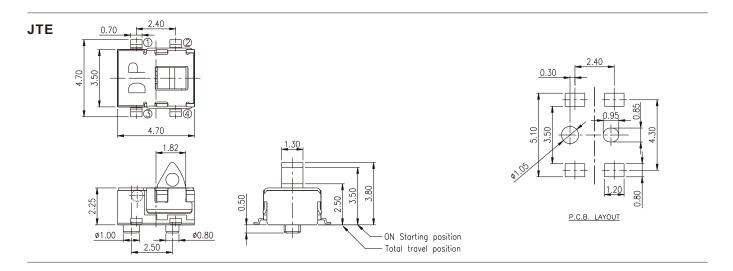
Contact Rating	10mA, 5V DC
Contact Resistance	1Ω max.
Insulation Resistance	$100M\Omega$ min. $100V$ DC
Dielectric Strength	100V AC/1 minute
Operating Force	36gf max.
Travel	2.5mm
Operating Life	100,000 cycles
Operating Temp.	-40°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

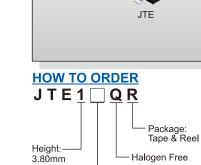
CIRCUIT



PACKAGE

<Tape & Reel> 1800 pcs



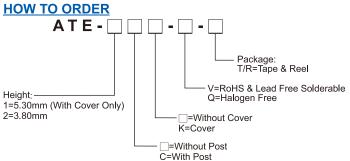


□=Without Post C=With Post Detector Vertical Type

Halogen Free Rolls







Detector

Vertical Type

FEATURES

※DSC

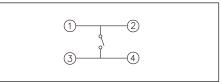
APPLICATION

*Detection of disc loading

%Guiding post offers easy orientation%3.80 & 5.30mm stem height available

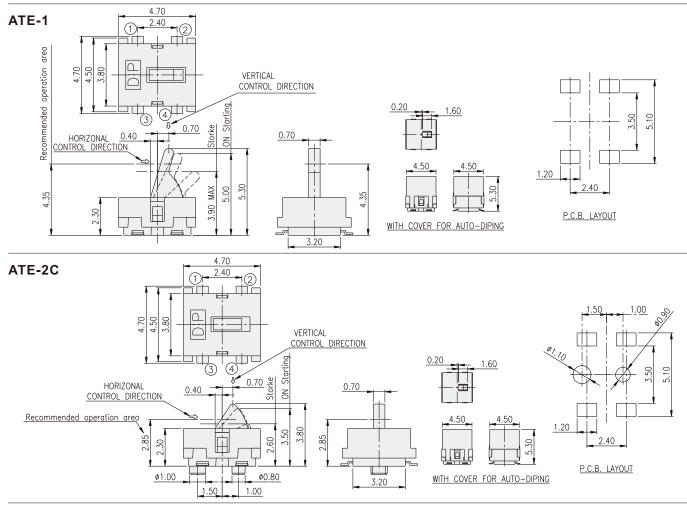
Contact Rating	1mA, 5V DC
Contact Resistance	1Ω max.
Insulation Resistance	100MΩ min. 100V DC
Dielectric Strength	100V AC/1 minute
Operating Force	40gf max.
Travel	3.9mm max. Stem Height 5.3mm 2.6mm max. Stem Height 3.8mm
Operating Life	100,000 cycles
Operating Temp.	-10°C ~ +60°C
Storage Temp.	-20°C ~ +70°C

CIRCUIT



PACKAGE

<Tape & Reel> ATE-1 : 900 pcs ATE-2 K: 900 pcs ATE-2 : 1200 pcs



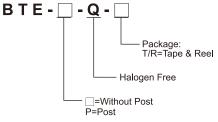
www.dip.com.tw F-13



DETECTOR SWITCH BTE SERIES



HOW TO ORDER





s

FEATURES %Guiding post offers easy orientation %Ultra-low profile

APPLICATION

%Notebook
%Smart phone

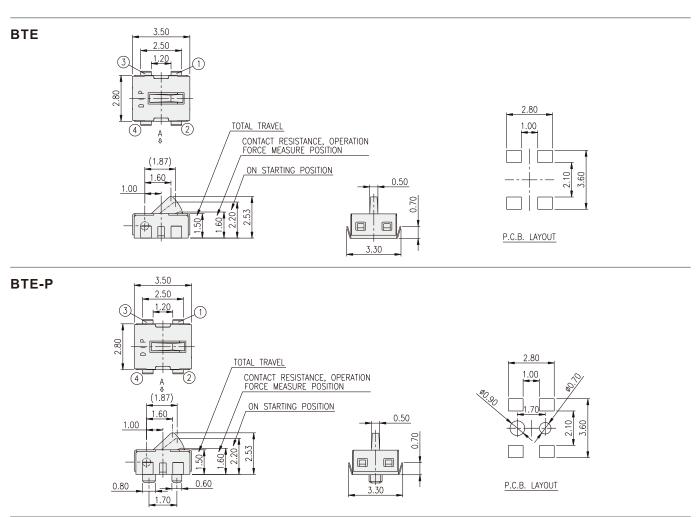
SPECIFICATION

Contact Rating	1mA, 5V DC
Contact Resistance	2Ω max.
Insulation Resistance	100MΩ min. 100V DC
Dielectric Strength	100V AC/1 minute
Operating Force	50gf max.
Travel	1.03mm
Operating Life	100,000 cycles
Operating Temp.	-10°C ~ +60°C
Storage Temp.	-20°C ~ +70°C

<u>CIRCUIT</u>

3	
4	

PACKAGE <Tape & Reel> 2600 pcs



F-14 DIPTRONICS

DETECTOR SWITCH CTE series



HOW TO ORDER Package: T/R=Tape & Reel V=RoHS & Lead Free Solderable Q=Halogen Free □=Without Post P=Post =Plastic Cover M=Metal Cover

1.70



FEATURES

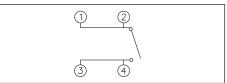
※Guiding post offers easy orientation *Operation force: 35gf max.

APPLICATION %Open/close detection ⊗Notebook **%**DSC

SPECIFICATION

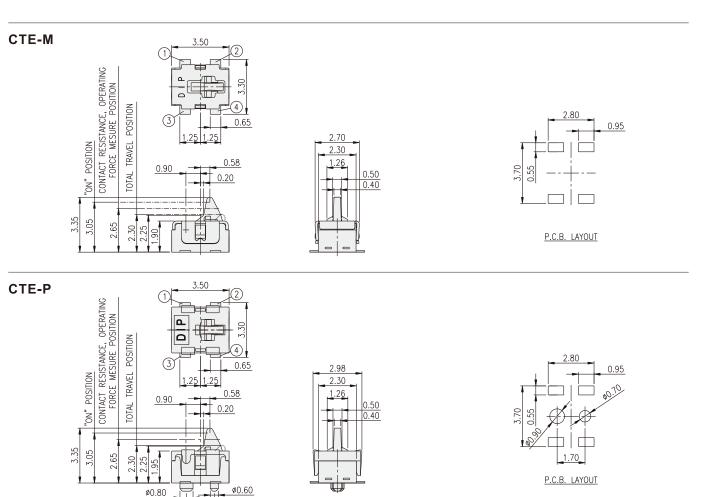
Contact Rating	0.1mA~100mA, 20mV~5V DC
Contact Resistance	500mΩ max.
Insulation Resistance	100MΩ min. 250V DC
Dielectric Strength	250V AC/1 minute
Operating Force	35gf max.
Travel	1.05mm
Operating Life	80,000 cycles
Operating Temp.	-15°C ~ +70°C
Storage Temp.	-40°C ~ +85°C

CIRCUIT



PACKAGE

<Tape & Reel> 1800 pcs



DETECTOR SWITCH TU SERIES

Detector Vertical Type



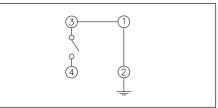


RoHS & Lead Free Solderable

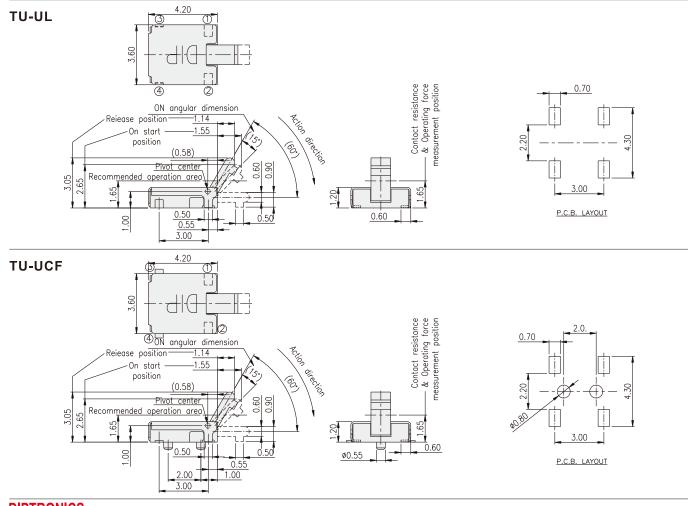
F=Flat L=J Bend

=Without Post

C=With Post

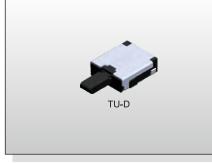


PACKAGE <Tape & Reel> 2300 pcs

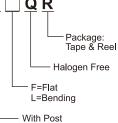


Uplift ·

F-16 DIPTRONICS



HOW TO ORDER T U - D C Q R



FEATURES

%Flat & bending terminals available %50,000 operation life cycles

APPLICATION *Consumer electronics

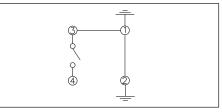
- Consumer electronicsDetection of video cameras
- *Open/close detection
- *Safety control device
- *Heat energy regulator

SPECIFICATION

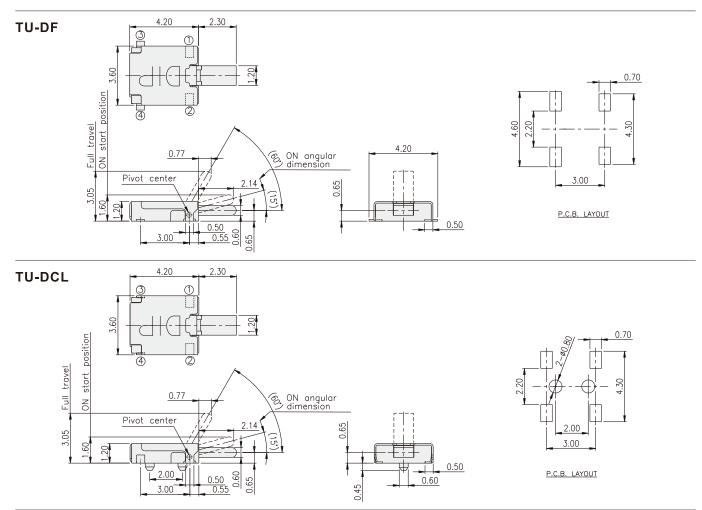
Contact Rating	50uA, 3V DC to 10mA, 5V DC
Contact Resistance	1Ω max.
Insulation Resistance	100MΩ min.
Dielectric Strength	100V AC/1 minute
Operating Force	40gf max.
Travel	60°
Operating Life	50,000 cycles
Operating Temp.	-10°C ~ +60°C
Storage Temp.	-20°C ~ +70°C

Halogen Free RoHS

<u>CIRCUIT</u>



PACKAGE <Tape & Reel> 3500 pcs



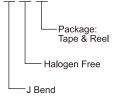
MULTI FUNCTION SWITCH

Miniature Double Action Type





HOW TO ORDER M 2 D L Q R



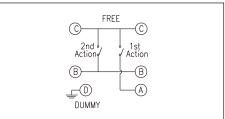
FEATURES

*Double action*Compact-sized 4.1x4.3mm*0.6mm height

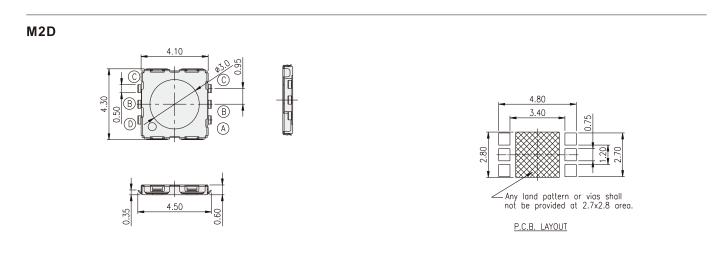
APPLICATION %Camera %Mobile phone & peripherals

SPECIFICATION

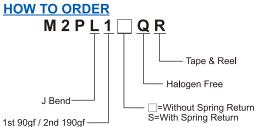
Contact Rating	10µA, 2V DC min. 20mA, 15V DC max.
Contact Resistance	500mΩ max.
Insulation Resistance	100M Ω min. 100V DC
Dielectric Strength	250V AC/1 minute
Operating Force	90±40gf, 1st 190±60gf, 2nd
Travel	0.15mm, 1st 0.30mm, 2nd
Operating Life	100,000 cycles
Operating Temp.	-20°C ~ +70°C
Storage Temp.	-40°C ~ +85°C



PACKAGE <Tape & Reel> 4500 pcs



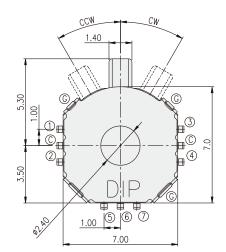


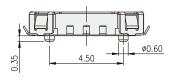


PACKAGE

<Tape & Reel> 2300 pcs

M2P







FEATURES

*Double action with lever *1.4mm height

APPLICATION %Camera %Mobile phone & peripherals

1.25

£

l

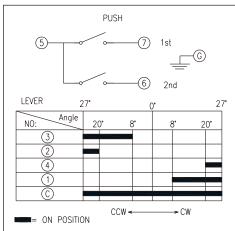
1.40

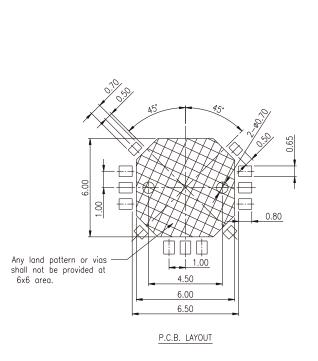
SPECIFICATION

Contact Rating	01mA, 3V DC~10mA, 5V DC
Contact Resistance	1Ω max.
Insulation Resistance	100MΩ min. 500V DC
Dielectric Strength	100V AC/1 minute
Operating Force	Lever:70gf.cm MAX Push:90±40gf, 1st 190±60gf, 2nd
Travel	<u>Lever</u> :8 [°] , 1st 20 [°] , 2nd <u>Push</u> :0.15mm, 1st 0.30mm, 2nd
Operating Life	50,000 cycles
Operating Temp.	-40°C ~ +85°C
Storage Temp.	-40°C ~ +85°C

Halogen Free RoHS

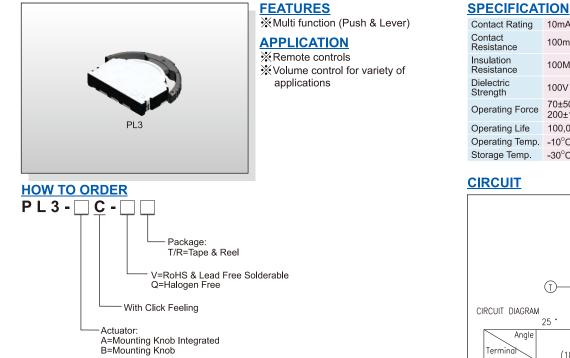
CIRCUIT





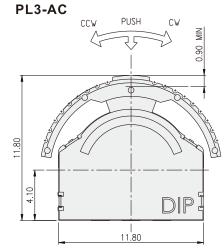
Push & Lever Туре

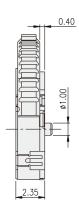


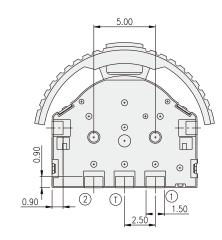


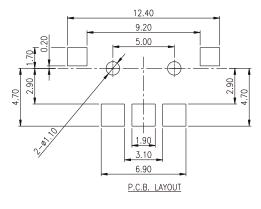
PACKAGE









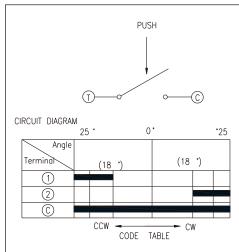


10mA, 5V DC

100mΩ max.

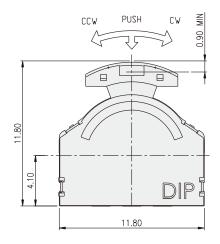
Operating Life 100,000 cycles Operating Temp. $-10^{\circ}C \sim +60^{\circ}C$ Storage Temp. -30°C ~ +80°C

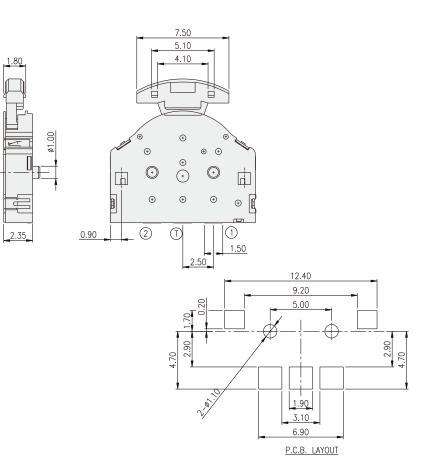
CIRCUIT





PL3-BC

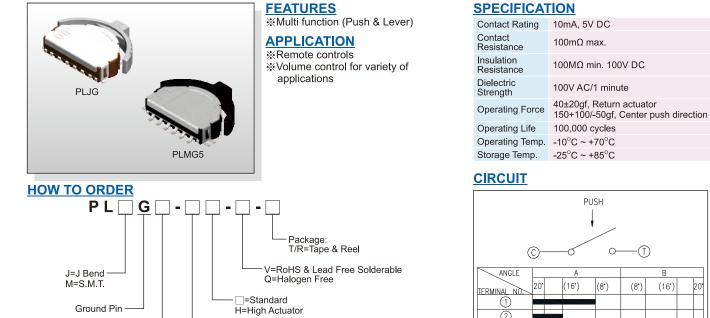




PL SERIES

Push & Lever Туре

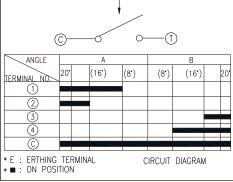




Actuator Color: G=Gray K=Black

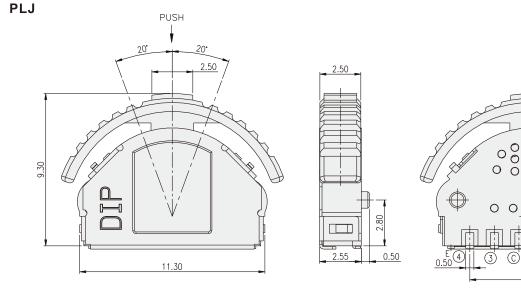
=2 Ground Pins 1=4 Ground Pins 2=Alignment Pins 3=Pins(Arrow) 5=Alignment Pins(For PLMG Type)

100,000 cycles Operating Temp. -10°C ~ +70°C Storage Temp. -25°C ~ +85°C PUSH 0 0

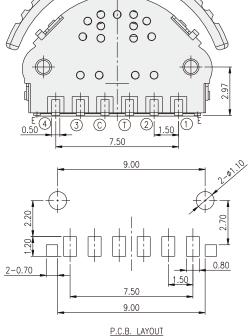


PACKAGE

<Tape & Reel> PLJ(G), PLJG1: 1000 pcs PLJG(2)(3): 800 pcs PLMG5: 750 pcs



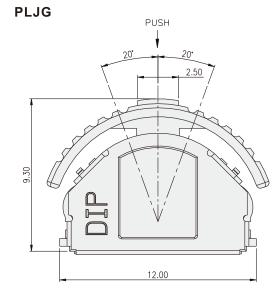


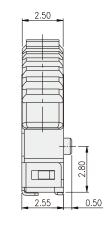


PL SERIES

Push & Lever Type





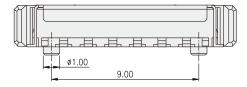


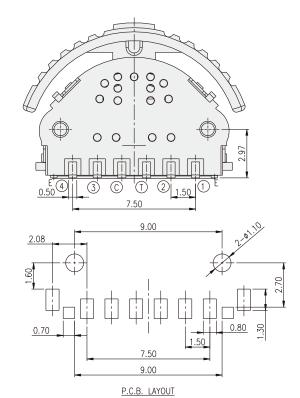
2.50

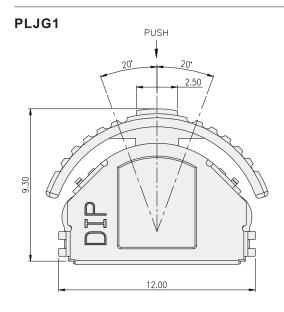
2.55

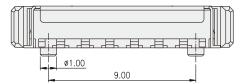
2.80

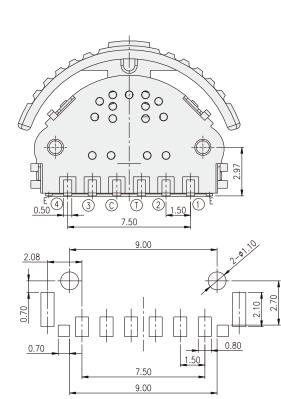
0.50







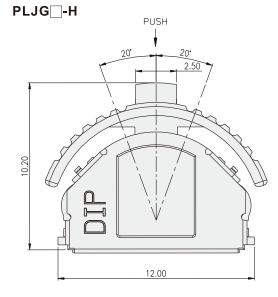


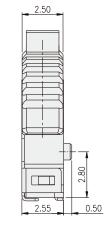


PL SERIES

Push & Lever Type



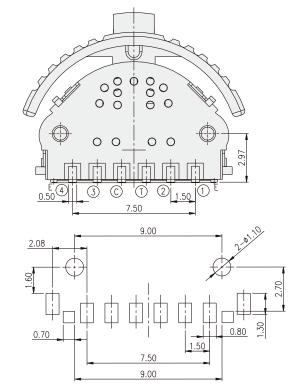




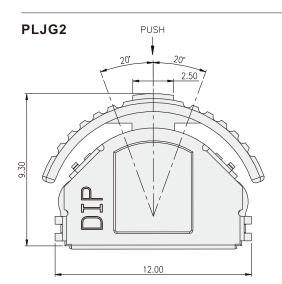
2.50

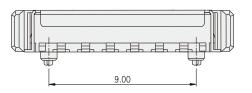
2.55

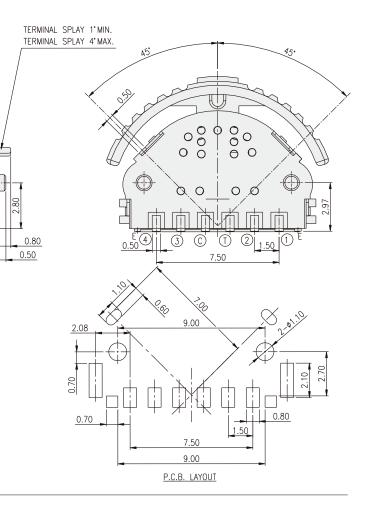




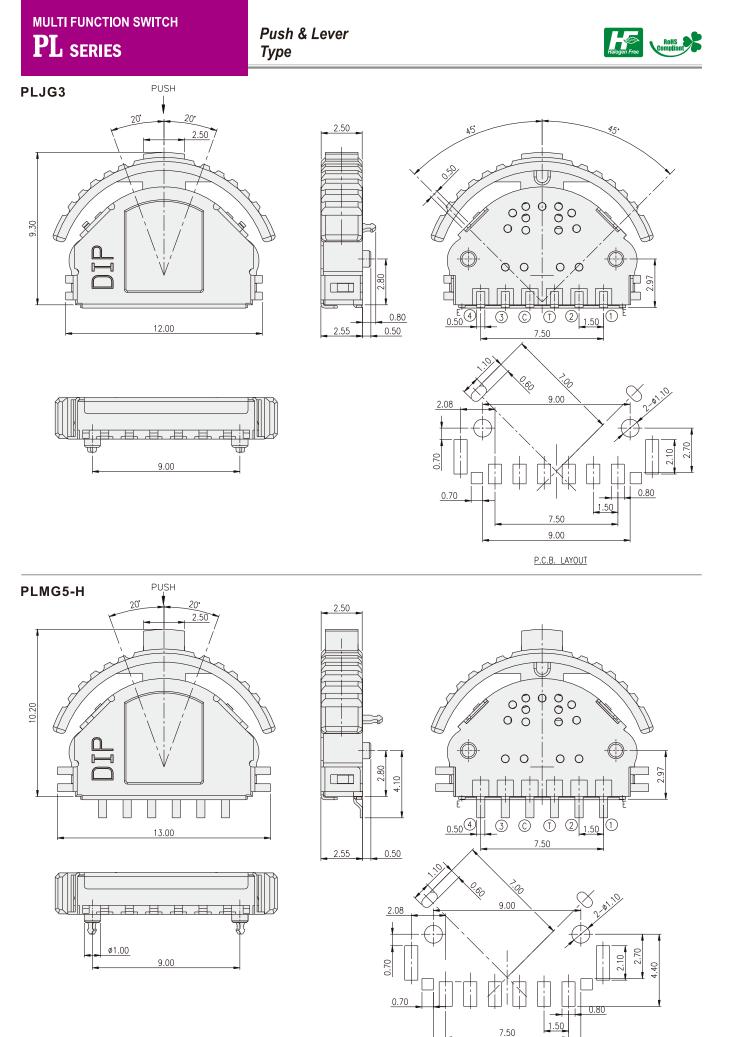
P.C.B. LAYOUT







G-07 DIPTRONICS



www.dip.com.tw

9.00 P.C.B. LAYOUT

G-08



MT5

MT5

=4.50mm 1=5.00mm

2=4.00mm

3=6.40mm

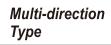
MT - - - - -

HOW TO ORDER

4=4 Directions 5=5 Directions

> Stem High: MT4

__=4.00mm



FEATURES

%7.4x7.7mm %Variety of height options %Reflow solderable

APPLICATION %Medical device

Package: T/R=Tape & Reel

V=RoHS & Lead Free Solderable Q=Halogen Free

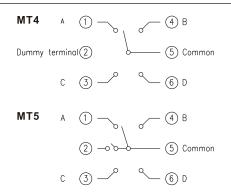
L=J Bend F=Flat S.M.T. *Consumer electronics *Security device

SPECIFICATION

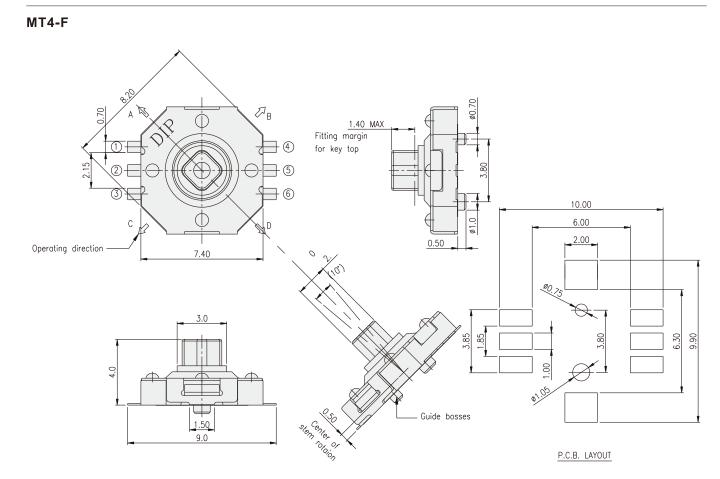
Contact Rating	50mA, 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩ min. 100V DC
Dielectric Strength	250V AC/1 minute
Operating Force	160gf, 4-direction 360gf, Center push
Travel	0.25mm, 4-direction 0.15mm, Center push
Operating Life	100,000 cycles
Operating Temp.	-25°C ~ +70°C
Storage Temp.	-40°C ~ +85°C

RoHS Complian

<u>CIRCUIT</u>



PACKAGE <Tape & Reel> 850 pcs MT5-3 : 800 pcs

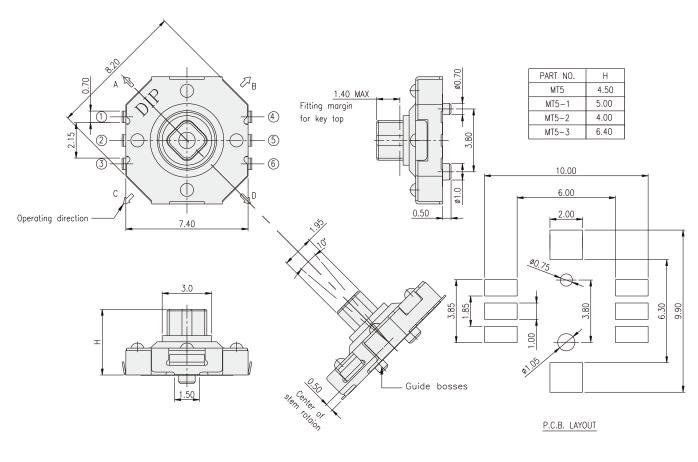




Multi-direction Type



MT5-L



MULTI FUNCTION SWITCH

Encoder 8-Direction Type



FEATURES

Package: T/R=Tape & Reel

=Non-click, Black

B=40gf, Blue N=130gf, Brown

RoHS & Lead Free Solderable

 *Low profile
 *Mode switching with maximum 8-direction
 *Non-click structure applicable

APPLICATION

%Thermal controller%Camera%Audio

SPECIFICATION

Contact Rating	25mA, 24V DC
Contact Resistance	200mΩ max.
Insulation Resistance	100MΩ min. 500V DC
Dielectric Strength	300V AC/1 minute
Operating Force	40±30gf, B 130±50gf, N
Operating Life	10,000 cycles
Operating Temp.	-25°C ~ +80°C
Storage Temp.	-40°C ~ +85°C

PACKAGE

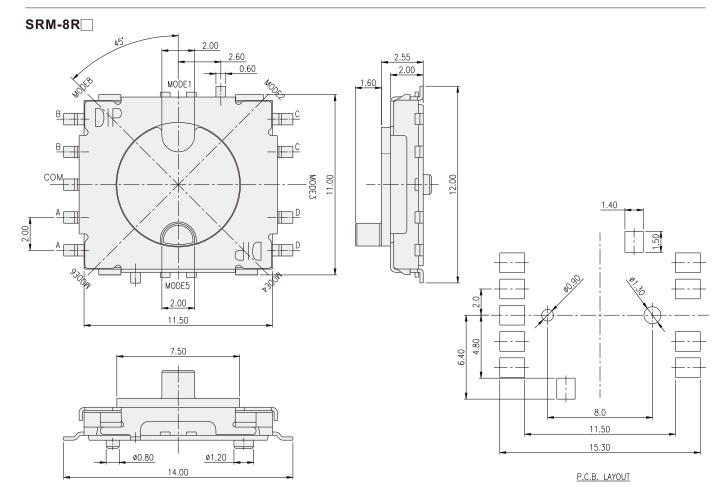
<Tape & Reel> 900 pcs



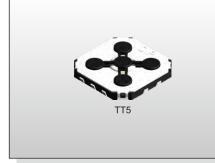
8 Direction Circuit: 7=7 Circuit, Base: Black 8=8 Circuit, Base: Brown

G=Without Ground Pin
 G=With Ground Pin

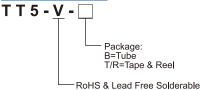
SRM-8R7	SRM-8R8
Changeover Timing	Changeover Timing
MODE1 MODE2 MODE3 MODE4 MODE5 MODE6 MODE7 MODE8 MODE1	MODE1 MODE2 MODE3 MODE4 MODE5 MODE6 MODE7 MODE8 MODE1
0' 45' 90' 135' 180' 225' 270' 315' 360'	0' 45' 90' 135' 180' 225' 270' 315' 360'
COM-A -CON	COM-A -CON
COM-B -COFF	OFF
COM-B -COFF	COM-B -COF
COM-C -COFF	COM-C -COF
COM-D -COFF	COM-D -COF



MULTI FUNCTION SWITCH TT5 SERIES



HOW TO ORDER



Multi-direction Туре

FEATURES *Low-Profile of height 1.55mm *Sharp operation feeling

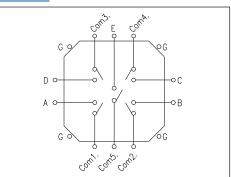
APPLICATION %Portable electronic devices ℜRemote control **%Industrial applications**

SPECIFICATION

Contact Rating	50mA, 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	$100M\Omega$ min. 500V DC
Dielectric Strength	250V AC/1 minute
Operating Force	180±60gf, Side 320+80/-60gf, Center
Travel	0.25mm
Operating Life	200,000 cycles
Operating Temp.	-20°C ~ +70°C
Storage Temp.	-40°C ~ +85°C

RoHS Complian

CIRCUIT



PACKAGE <Tube> 47 pcs **<Tape & Reel>** 2500 pcs

