

DHNF SERIES



INDEX

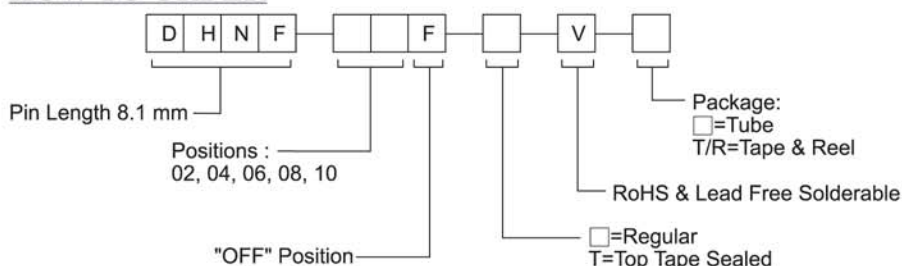
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Dip Switch	111
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Detector Switch	114
Multi Function Switch	115



**1.6mm
Half Pitch Type**

HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 1000 operations.
 Operation Force: 500gf
 Stroke: 0.6mm

ENVIRONMENTAL

Operation Temperature Range: -40° C to +85° C.
 Storage Temperature Range: -40° C to +85° C.

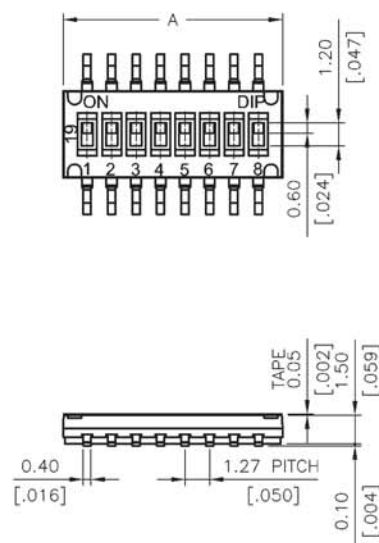
ELECTRICAL

Electrical Life: 1000 operation cycles
 Non-Switching Rating: 100mA, 50VDC.
 Switching Rating: 25mA, 24VDC.

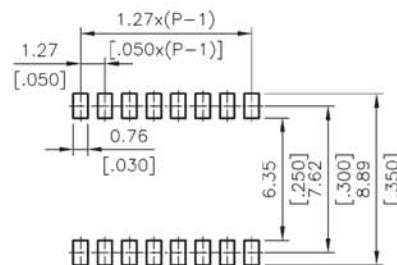
PACKAGE

DHNF-02(-T): 125 pcs/tube
 DHNF-04(-T): 75 pcs/tube
 DHNF-06(-T): 54 pcs/tube
 DHNF-08(-T): 40 pcs/tube
 DHNF-10(-T): 33 pcs/tube
 Tape and Reel:
 DHNF series: 2500 pcs/reel

DHNF



DHNF-10-V	10	13.93[.548]
DHNF-08-V	8	11.39[.448]
DHNF-06-V	6	8.85[.348]
DHNF-04-V	4	6.31[.248]
DHNF-02-V	2	3.77[.148]
PROD. NO.	NO. OF POS.	DIM. A



P.C.B. LAYOUT

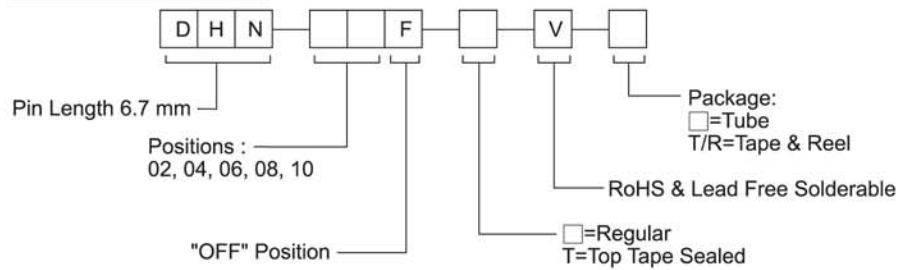
General Tolerance: ±0.2mm(±0.008")

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DIP SWITCH

NEW

HOW TO ORDER



Precaution : For quality assurance, please operate actuators carefully refer specification.

SPECIFICATION

MECHANICAL

Mechanical Life: 1000 operations.
Operation Force: 500gf
Stroke: 0.6mm

ENVIRONMENTAL

Operation Temperature Range: -40°C to +85°C.
Storage Temperature Range: -40°C to +85°C.

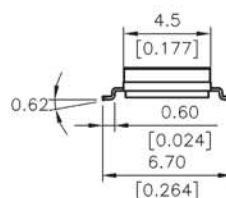
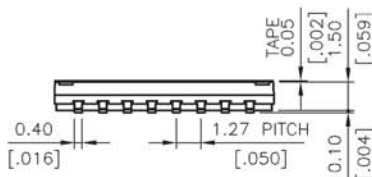
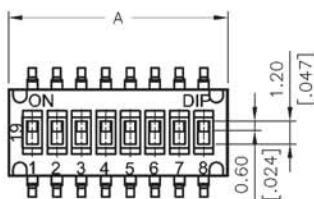
ELECTRICAL

Electrical Life: 1000 operation cycles
Non-Switching Rating: 100mA, 50VDC.
Switching Rating: 25mA, 24VDC.

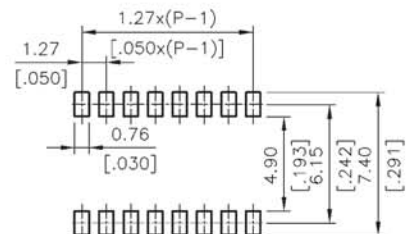
PACKAGE

DHN-02(-T): 125 pcs/tube
DHN-04(-T): 75 pcs/tube
DHN-06(-T): 54 pcs/tube
DHN-08(-T): 40 pcs/tube
DHN-10(-T): 33 pcs/tube
Tape and Reel: DHN series: 4000 pcs/reel

DHN



DHN-10-V	10	13.93[.548]
DHN-08-V	8	11.39[.448]
DHN-06-V	6	8.85[.348]
DHN-04-V	4	6.31[.248]
DHN-02-V	2	3.77[.148]
PROD. NO.	NO. OF POS.	DIM. A



P.C.B. LAYOUT

General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008"$)

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EM(R), EI(R) & ES(R), EJ(R) SERIES

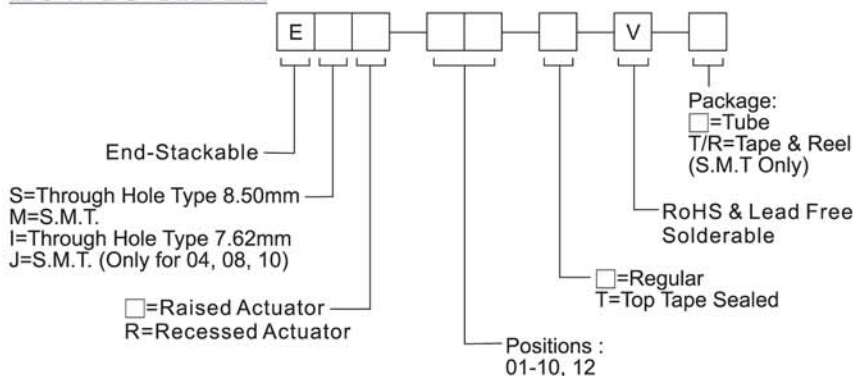
End Stackable / SMT & Through Hole Type



3

DIP SWITCH

HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 2,000 operations.
Operation Force: 1,000gf max.
Stroke: 1.0 mm

ENVIRONMENTAL

Operation Temp: -20°C to +85°C
Storage Temperature: -40°C to +85°C

ELECTRICAL

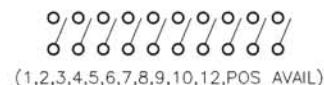
Electrical Life: 2,000 cycles.
Switching Rating: 25mA, 24VDC.

PACKAGE

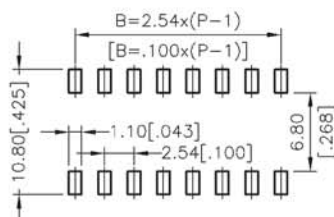
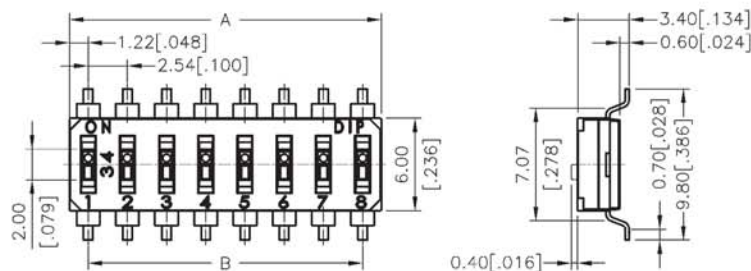
EM(R)/EI(R)/ES(R)-01: 194 pcs/tube
EM(R)/EI(R)/ES(R)-02: 95 pcs/tube
EM(R)/EI(R)/ES(R)-03: 63 pcs/tube
EM(R)/EI(R)/ES(R)/EJ(R)-04: 47 pcs/tube
EM(R)/EI(R)/ES(R)-05: 38 pcs/tube
EM(R)/EI(R)/ES(R)-06: 31 pcs/tube
EM(R)/EI(R)/ES(R)-07: 27 pcs/tube
EM(R)/EI(R)/ES(R)/EJ(R)-08: 23 pcs/tube
EM(R)/EI(R)/ES(R)-09: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

CIRCUIT

SCHEMATIC(TYP.)



EM(R)



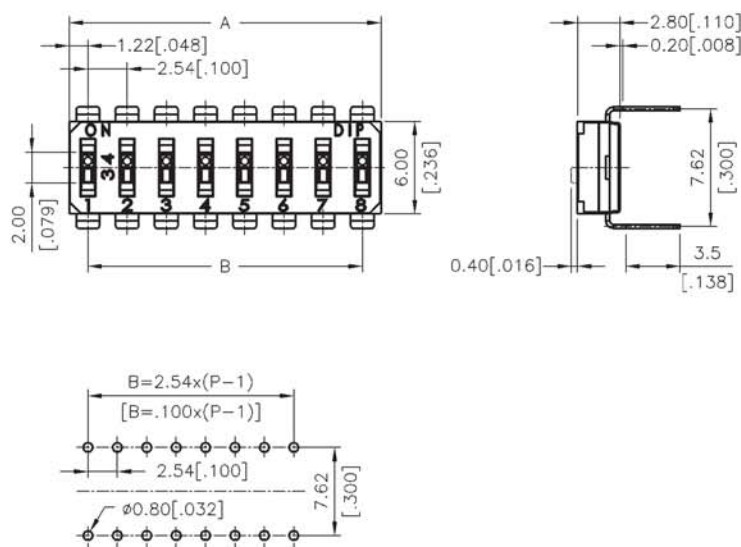
P.C.B. LAYOUT

EM-12 EMR-12	12	30.38[1.196]	27.94[1.100]
EM-10 EMR-10	10	25.30[.996]	22.86[.900]
EM-09 EMR-09	9	22.76[.896]	20.32[.800]
EM-08 EMR-08	8	20.22[.796]	17.78[.700]
EM-07 EMR-07	7	17.68[.696]	15.24[.600]
EM-06 EMR-06	6	15.14[.596]	12.70[.500]
EM-05 EMR-05	5	12.60[.496]	10.16[.400]
EM-04 EMR-04	4	10.06[.396]	7.62[.300]
EM-03 EMR-03	3	7.52[.296]	5.08[.200]
EM-02 EMR-02	2	4.98[.196]	2.54[.100]
EM-01 EMR-01	1	2.44[.096]	---
PROD. NO.	NO. OF POS.	DIM. A	DIM. B

General Tolerance: ±02mm(±0.008")

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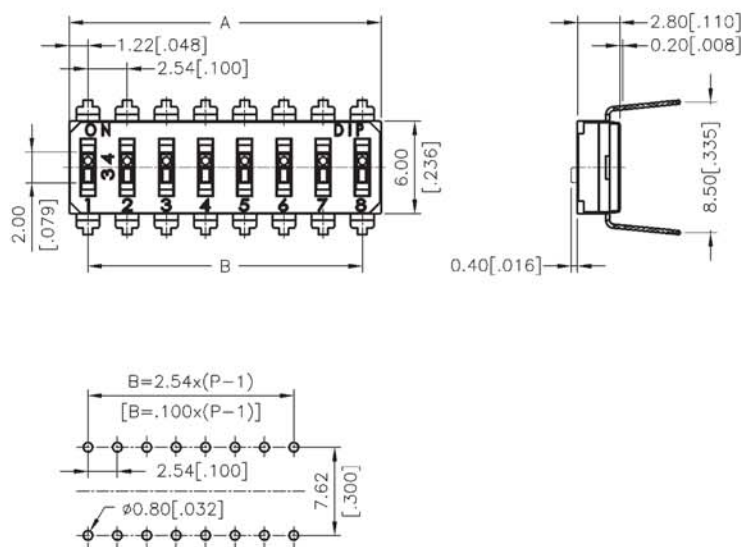
EI(R)



P.C.B. LAYOUT

EI-12 EIR-12	12	30.38[1.196]	27.94[1.100]
EI-10 EIR-10	10	25.30[.996]	22.86[.900]
EI-09 EIR-09	9	22.76[.896]	20.32[.800]
EI-08 EIR-08	8	20.22[.796]	17.78[.700]
EI-07 EIR-07	7	17.68[.696]	15.24[.600]
EI-06 EIR-06	6	15.14[.596]	12.70[.500]
EI-05 EIR-05	5	12.60[.496]	10.16[.400]
EI-04 EIR-04	4	10.06[.396]	7.62[.300]
EI-03 EIR-03	3	7.52[.296]	5.08[.200]
EI-02 EIR-02	2	4.98[.196]	2.54[.100]
EI-01 EIR-01	1	2.44[.096]	---
PROD. NO.	NO. OF POS.	DIM. A	DIM. B

ES(R)



P.C.B. LAYOUT

ES-12 ESR-12	12	30.38[1.196]	27.94[1.100]
ES-10 ESR-10	10	25.30[.996]	22.86[.900]
ES-09 ESR-09	9	22.76[.896]	20.32[.800]
ES-08 ESR-08	8	20.22[.796]	17.78[.700]
ES-07 ESR-07	7	17.68[.696]	15.24[.600]
ES-06 ESR-06	6	15.14[.596]	12.70[.500]
ES-05 ESR-05	5	12.60[.496]	10.16[.400]
ES-04 ESR-04	4	10.06[.396]	7.62[.300]
ES-03 ESR-03	3	7.52[.296]	5.08[.200]
ES-02 ESR-02	2	4.98[.196]	2.54[.100]
ES-01 ESR-01	1	2.44[.096]	---
PROD. NO.	NO. OF POS.	DIM. A	DIM. B

EM(R), EI(R) & ES(R), EJ(R) SERIES

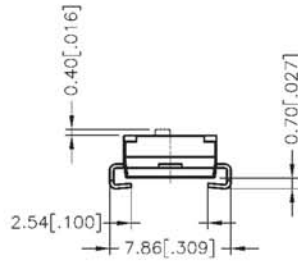
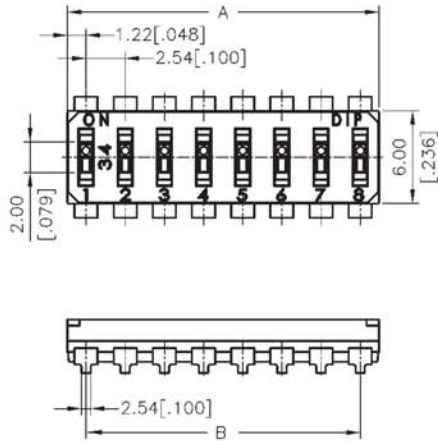
End Stackable /
SMT & Through Hole Type



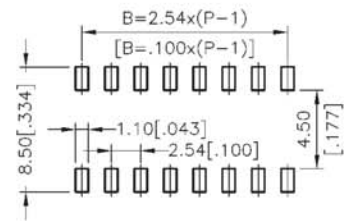
5

DIP SWITCH

EJ(R)



EJ-10 EJR-10	10	25.30[.996]	22.86[.900]
EJ-08 EJR-08	8	20.22[.796]	17.78[.700]
EJ-04 EJR-04	4	10.06[.396]	7.62[.300]
PROD. NO.	NO. OF POS.	DIM. A	DIM. B



P.C.B. LAYOUT

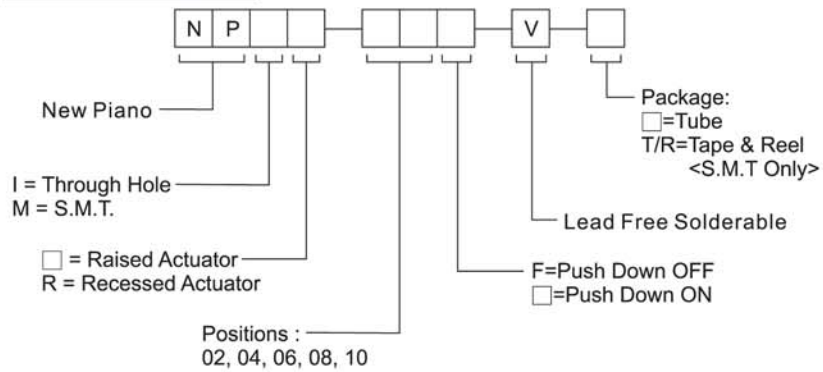
General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

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NEW



HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 2,000 cycles
Operation Force: 800gf max.

ENVIRONMENTAL

Operation Temperature Range: -20°C to +85°C.
Storage Temperature Range: -40°C to +85°C.

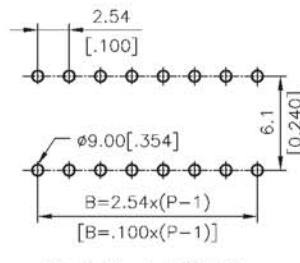
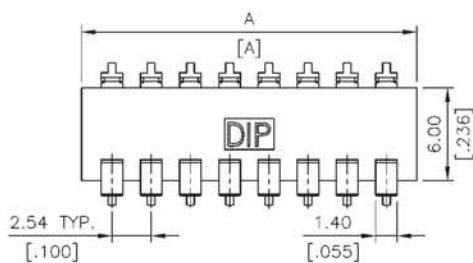
ELECTRICAL

Electrical Life: 2,000 cycles.
Non-Switching Rating: 100mA, 50VDC
Switching Rating: 25mA, 24VDC

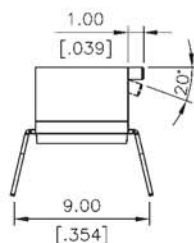
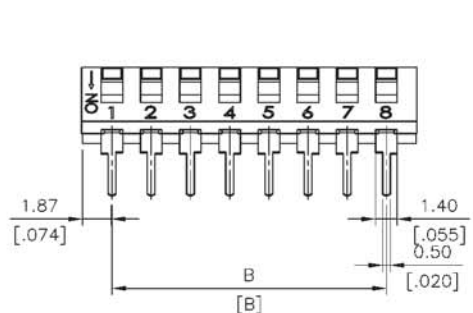
PACKAGE

NPI(R)/NPM(R)-02: 70 pcs/tube
NPI(R)/NPM(R)-04: 40 pcs/tube
NPI(R)/NPM(R)-06: 28 pcs/tube
NPI(R)/NPM(R)-08: 20 pcs/tube
NPI(R)/NPM(R)-10: 16 pcs/tube
NPM(R)-02, 04, 06, 08, 10: 700 pcs/reel

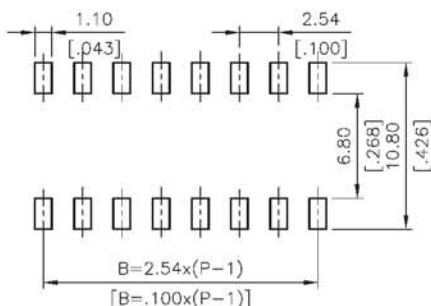
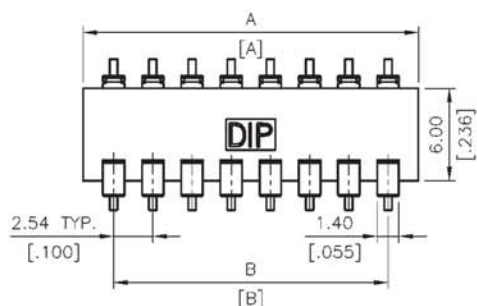
NPI



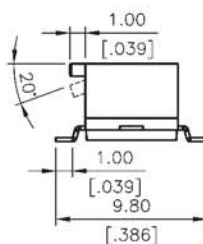
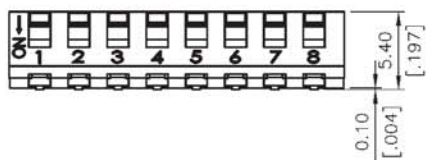
NPI-10-V	10	26.80 [1.055]	22.86 [.900]
NPI-08-V	8	21.72 [.855]	17.78 [.700]
NPI-06-V	6	16.64 [.655]	12.70 [.500]
NPI-04-V	4	11.56 [.455]	7.62 [.300]
NPI-02-V	2	6.48 [.255]	2.54 [.100]
PROD. NO.	NO. OF POS.	DIM. A	DIM. B



NPM

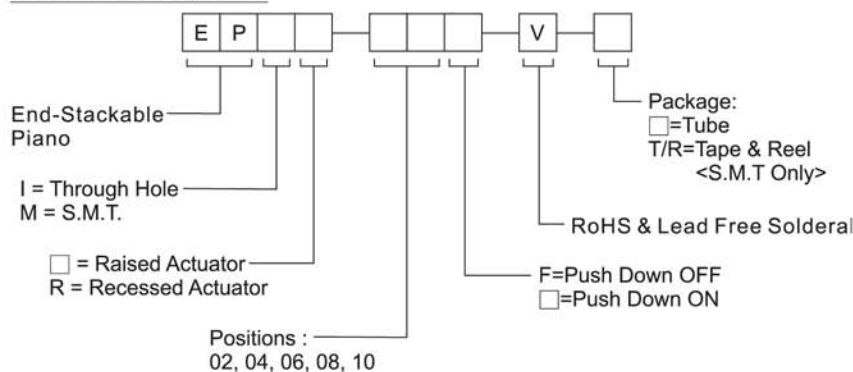


P.C.B. LAYOUT



NPI-10-V	10	26.80 [1.055]	22.86 [.900]
NPI-08-V	8	21.72 [.855]	17.78 [.700]
NPI-06-V	6	16.64 [.655]	12.70 [.500]
NPI-04-V	4	11.56 [.455]	7.62 [.300]
NPI-02-V	2	6.48 [.255]	2.54 [.100]
PROD. NO.	NO. OF POS.	DIM. A	DIM. B

HOW TO ORDER



PACKAGE

EPI(R)/EPM(R)-02: 95 pcs/tube
EPI(R)/EPM(R)-04: 47 pcs/tube
EPI(R)/EPM(R)-06: 31 pcs/tube
EPI(R)/EPM(R)-08: 23 pcs/tube
EPI(R)/EPM(R)-10: 18 pcs/tube
EPM(R)-02, 04, 06, 08, 10: 700 pcs/reel

CIRCUIT

SCHEMATIC(TYP.)



SPECIFICATION

MECHANICAL

Mechanical Life: 2,000 cycles
Operation Force: 800gf max.

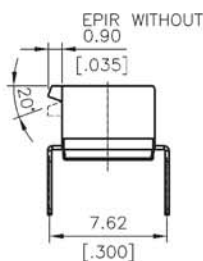
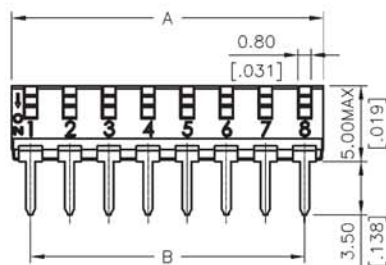
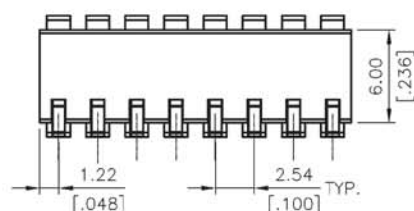
ENVIRONMENTAL

Operation Temperature Range: -20°C to +85°C.
Storage Temperature Range: -40°C to +85°C.

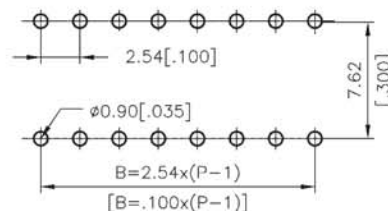
ELECTRICAL

Electrical Life: 2,000 cycles.
Switching Rating: 25mA, 24VDC

EPI(R)



EPI-10 EPIR-10	10	25.30[.996]	22.86[.900]
EPI-08 EPIR-08	8	20.22[.796]	17.78[.700]
EPI-06 EPIR-06	6	15.14[.596]	12.70[.500]
EPI-04 EPIR-04	4	10.06[.396]	7.62[.300]
EPI-02 EPIR-02	2	4.89[.196]	2.54[.100]
PROD. NO.	NO. OF POS.	DIM. A	DIM. B

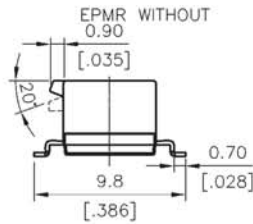
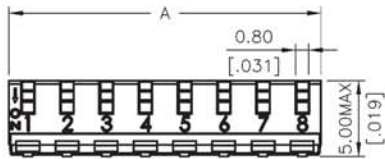
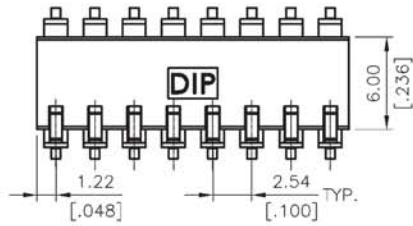


P.C.B. LAYOUT

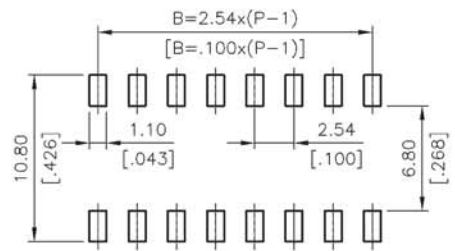
General Tolerance: ±0.2mm(±0.008")

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EPM(R)

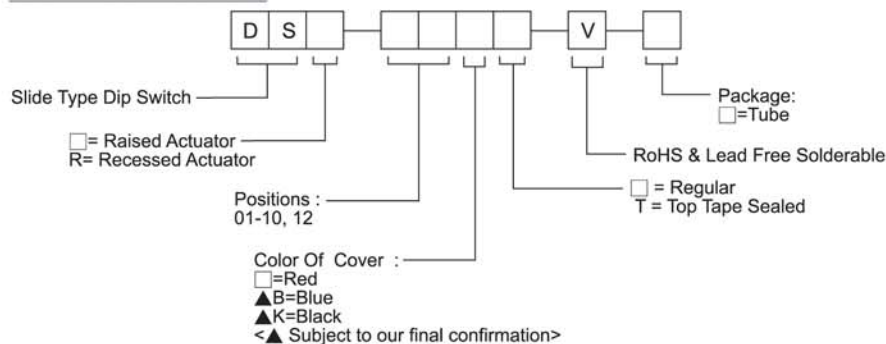


EPM-10 EPMR-10	10	25.30[.996]	22.86[.900]
EPM-08 EPMR-08	8	20.22[.796]	17.78[.700]
EPM-06 EPMR-06	6	15.14[.596]	12.70[.500]
EPM-04 EPMR-04	4	10.06[.396]	7.62[.300]
EPM-02 EPMR-02	2	4.89[.196]	2.54[.100]
PROD. NO.	NO. OF POS.	DIM. A	DIM. B



P.C.B. LAYOUT

HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 2,000 operations
Operation Force: 1,000gf max.
Stroke: 2.0mm

ENVIRONMENTAL

Operation Temperature: -20°C to +70°C
Storage Temperature: -40°C to +85°C

ELECTRICAL

Electrical Life: 2,000 operations
Non-Switching Rating: 100mA, 50VDC
Switching Rating: 25mA, 24VDC

PACKAGE

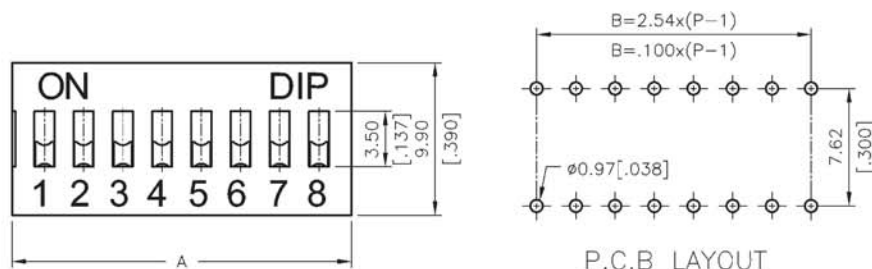
DS(R)-01: 125 pcs/tube	DS(R)-01-T: 125 pcs/tube
DS(R)-02: 72 pcs/tube	DS(R)-02-T: 70 pcs/tube
DS(R)-03: 51 pcs/tube	DS(R)-03-T: 50 pcs/tube
DS(R)-04: 40 pcs/tube	DS(R)-04-T: 39 pcs/tube
DS(R)-05: 32 pcs/tube	DS(R)-05-T: 32 pcs/tube
DS(R)-06: 27 pcs/tube	DS(R)-06-T: 28 pcs/tube
DS(R)-07: 24 pcs/tube	DS(R)-07-T: 24 pcs/tube
DS(R)-08: 21 pcs/tube	DS(R)-08-T: 21 pcs/tube
DS(R)-09: 19 pcs/tube	DS(R)-09-T: 19 pcs/tube
DS(R)-10: 17 pcs/tube	DS(R)-10-T: 17 pcs/tube
DS(R)-12: 14 pcs/tube	DS(R)-12-T: 14 pcs/tube

CIRCUIT

SCHEMATIC(TYP.)



DS(R)



P.C.B LAYOUT

DS SERIES

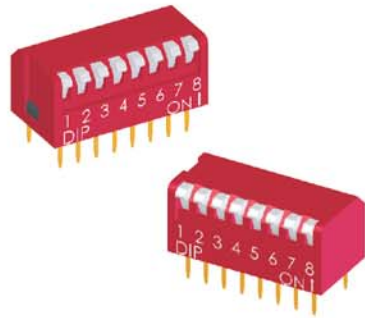
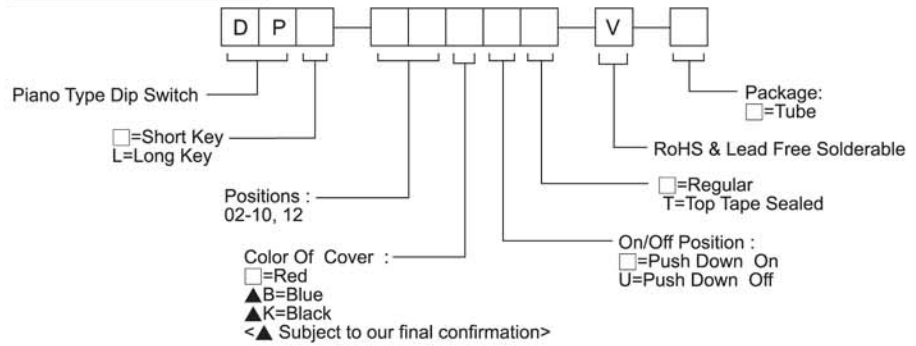
DSR SERIES

DS-12-V	12	31.84 [1.254]	27.94 [1.100]
DSR-12-V	12	31.84 [1.254]	27.94 [1.100]
DS-10-V	10	26.76 [1.054]	22.86 [900]
DSR-10-V	10	26.76 [1.054]	22.86 [900]
DS-09-V	9	24.22 [.954]	20.32 [.800]
DSR-09-V	9	24.22 [.954]	20.32 [.800]
DS-08-V	8	21.68 [.854]	17.78 [.700]
DSR-08-V	8	21.68 [.854]	17.78 [.700]
DS-07-V	7	19.14 [.754]	15.24 [.600]
DSR-07-V	7	19.14 [.754]	15.24 [.600]
DS-06-V	6	16.60 [.654]	12.70 [.500]
DSR-06-V	6	16.60 [.654]	12.70 [.500]
DS-05-V	5	14.06 [.554]	10.16 [.400]
DSR-05-V	5	14.06 [.554]	10.16 [.400]
DS-04-V	4	11.52 [.454]	7.62 [.300]
DSR-04-V	4	11.52 [.454]	7.62 [.300]
DS-03-V	3	8.98 [.354]	5.08 [.200]
DSR-03-V	3	8.98 [.354]	5.08 [.200]
DS-02-V	2	6.44 [.254]	2.54 [.100]
DSR-02-V	2	6.44 [.254]	2.54 [.100]
DS-01-V	1	3.90 [.153]	-
DSR-01-V	1	3.90 [.153]	-
PROD. NO.	NO. OF POS.	DIM. A	DIM. B

General Tolerance: ±0.2mm(±0.008")

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 2,000 operations
Operation Force: 400gf max.
Stroke: 2.0mm

ENVIRONMENTAL

Operation Temperature: -20°C to +70°C
Storage Temperature: -40°C to +85°C

ELECTRICAL

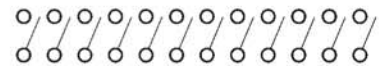
Electrical Life: 2,000 operations
Non-Switching Rating: 100mA , 50VDC
Switching Rating: 25mA , 24VDC

PACKAGE

DP(L)-02: 70 pcs/tube	DP(L)-02-T: 65 pcs/tube
DP(L)-03: 50 pcs/tube	DP(L)-03-T: 49 pcs/tube
DP(L)-04: 39 pcs/tube	DP(L)-04-T: 39 pcs/tube
DP(L)-05: 32 pcs/tube	DP(L)-05-T: 32 pcs/tube
DP(L)-06: 27 pcs/tube	DP(L)-06-T: 27 pcs/tube
DP(L)-07: 24 pcs/tube	DP(L)-07-T: 24 pcs/tube
DP(L)-08: 21 pcs/tube	DP(L)-08-T: 21 pcs/tube
DP(L)-09: 19 pcs/tube	DP(L)-09-T: 19 pcs/tube
DP(L)-10: 17 pcs/tube	DP(L)-10-T: 17 pcs/tube
DP(L)-12: 14 pcs/tube	DP(L)-12-T: 14 pcs/tube

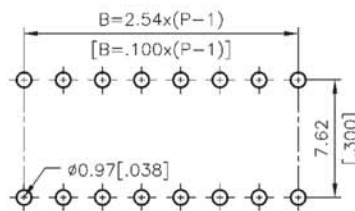
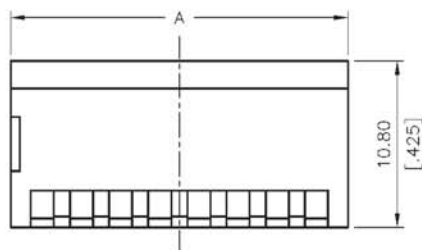
CIRCUIT

SCHEMATIC(TYP.)

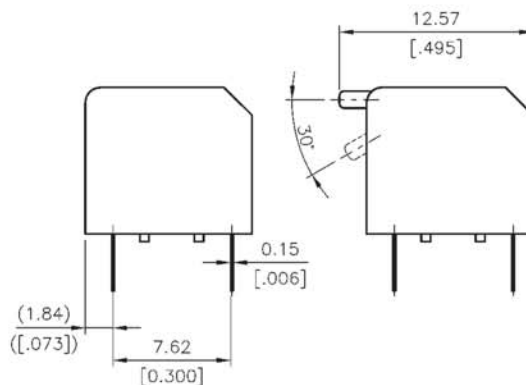
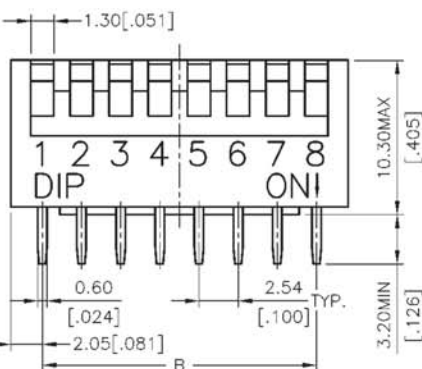


(2,3,4,5,6,7,8,9,10,12, POS AVAIL)

DP(L)



P.C.B. LAYOUT



DP SERIES

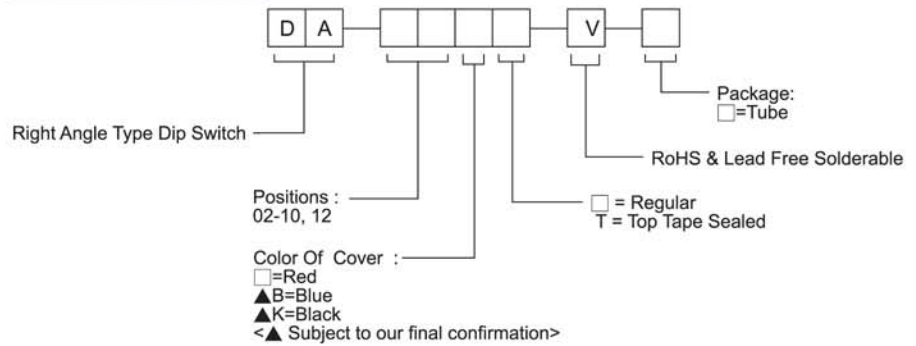
DPL SERIES

DP-12-V	12	32.04	27.94
DPL-12-V		[1.261]	[1.100]
DP-10-V	10	26.96	22.86
DPL-10-V		[1.061]	[.900]
DP-09-V	9	24.42	20.32
DPL-09-V		[.961]	[.800]
DP-08-V	8	21.88	17.78
DPL-08-V		[.861]	[.700]
DP-07-V	7	19.34	15.24
DPL-07-V		[.761]	[.600]
DP-06-V	6	16.80	12.70
DPL-06-V		[.661]	[.500]
DP-05-V	5	14.26	10.16
DPL-05-V		[.561]	[.400]
DP-04-V	4	11.72	7.62
DPL-04-V		[.461]	[.300]
DP-03-V	3	9.18	5.08
DPL-03-V		[.361]	[.200]
DP-02-V	2	6.64	2.54
DPL-02-V		[.261]	[.100]
PROD. NO.	NO. OF POS.	DIM. A	DIM. B

General Tolerance: ±02mm(±0.008")

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 2,000 operations
Operation Force: 1,000gf max.
Stroke: 2.0mm

ENVIRONMENTAL

Operation Temperature: -20°C to +70°C
Storage Temperature: -40°C to +85°C

ELECTRICAL

Electrical Life: 2,000 operations
Non-Switching Rating: 100mA , 50VDC
Switching Rating: 25mA , 24VDC

PACKAGE

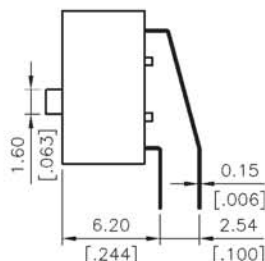
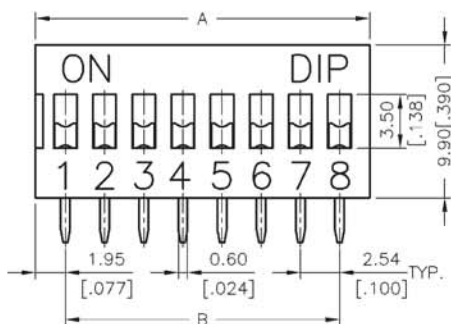
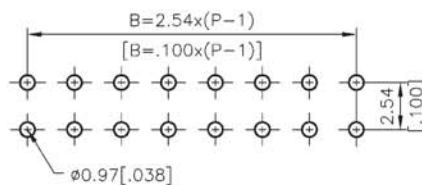
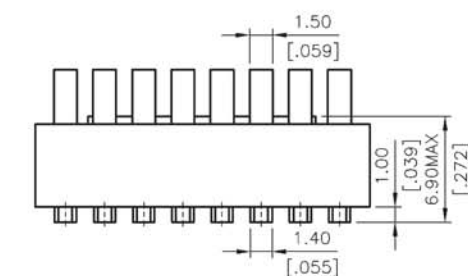
DA-02: 73pcs/tube	DA-02-T: 70 pcs/tube
DA-03: 52pcs/tube	DA-03-T: 50 pcs/tube
DA-04: 40pcs/tube	DA-04-T: 39 pcs/tube
DA-05: 33pcs/tube	DA-05-T: 32 pcs/tube
DA-06: 28pcs/tube	DA-06-T: 28 pcs/tube
DA-07: 24pcs/tube	DA-07-T: 24 pcs/tube
DA-08: 21pcs/tube	DA-08-T: 21 pcs/tube
DA-09: 19pcs/tube	DA-09-T: 19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

CIRCUIT

SCHEMATIC(TYP.)



DA

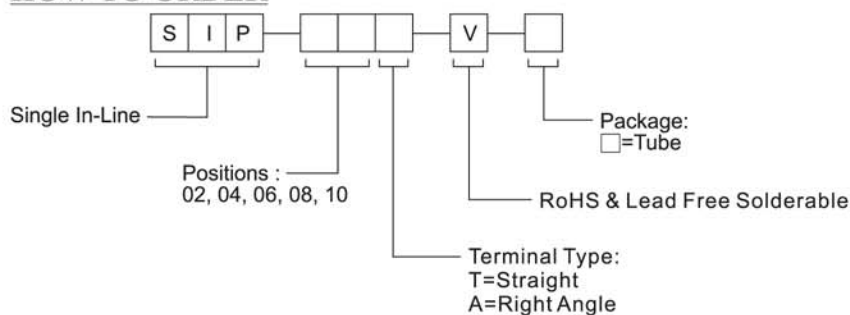


DA-12-V	12	31.84[1.254]	27.94[1.100]
DA-10-V	10	26.76[1.054]	22.86[.900]
DA-09-V	9	24.22[.954]	20.32[.800]
DA-08-V	8	21.68[.854]	17.78[.700]
DA-07-V	7	19.14[.754]	15.24[.600]
DA-06-V	6	16.60[.654]	12.70[.500]
DA-05-V	5	14.06[.554]	10.16[.400]
DA-04-V	4	11.52[.454]	7.62[.300]
DA-03-V	3	8.98[.354]	5.08[.200]
DA-02-V	2	6.44[.254]	2.54[.100]
PROD. NO.	NO. OF POS.	DIM.A	DIM.B

General Tolerance: ±0.2mm(±0.008")

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 500 operations.
Operation Force: 800gf.

ENVIRONMENTAL

Operation Temperature Range: -30°C to +80°C
Storage Temperature Range: -30°C to +80°C

ELECTRICAL

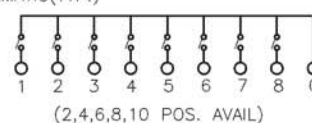
Electrical Life: 500 operations.
Non-Switching Rating: 100mA, 50VDC.
Switching Rating: 10mA, 5VDC.

PACKAGE

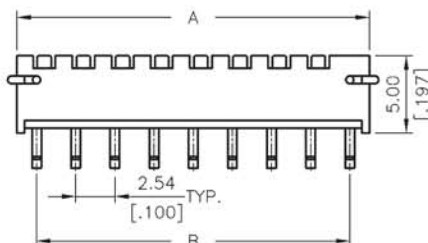
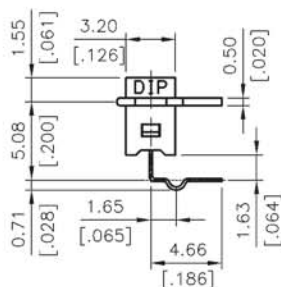
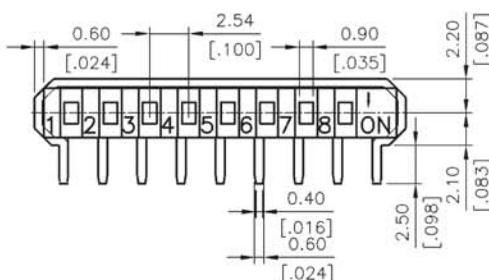
SIP-02A: 56 pcs/tube, SIP-02T: 62 pcs/tube
SIP-04A: 35 pcs/tube, SIP-04T: 37 pcs/tube
SIP-06A: 25 pcs/tube, SIP-06T: 27 pcs/tube
SIP-08A: 20 pcs/tube, SIP-08T: 20 pcs/tube
SIP-10A: 16 pcs/tube, SIP-10T: 17 pcs/tube

CIRCUIT

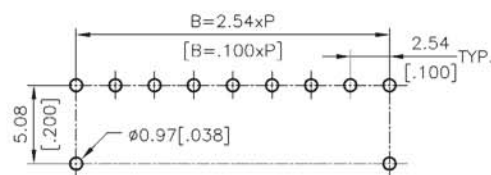
SCHEMATIC(TYP.)



SIP-A

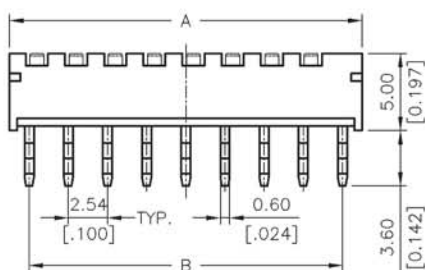
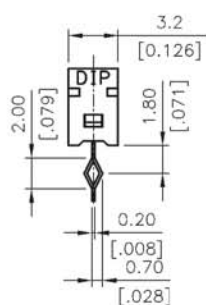
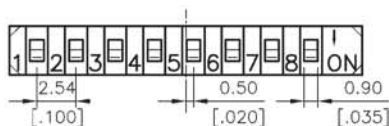


SIP-10-V	10	27.94[1.100]	25.40[1.000]
SIP-08-V	8	22.86[.900]	20.32[.800]
SIP-06-V	6	17.78[.700]	15.24[.600]
SIP-04-V	4	12.70[.500]	10.16[.400]
SIP-02-V	2	7.62[.300]	5.08[.200]
PROD. NO.	NO. OF POS.	DIM. A	DIM. B

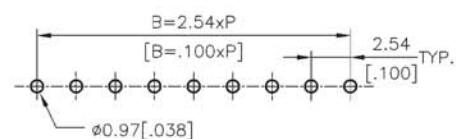


P.C.B. LAYOUT

SIP-T

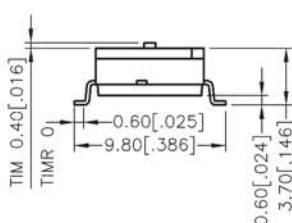
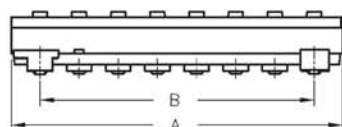
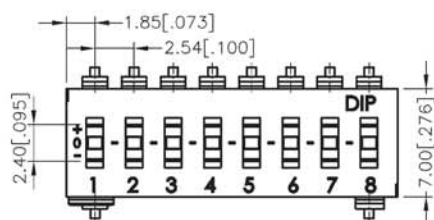


SIP-10-V	10	27.94[1.100]	25.40[1.000]
SIP-08-V	8	22.86[.900]	20.32[.800]
SIP-06-V	6	17.78[.700]	15.24[.600]
SIP-04-V	4	12.70[.500]	10.16[.400]
SIP-02-V	2	7.62[.300]	5.08[.200]
PROD. NO.	NO. OF POS.	DIM. A	DIM. B

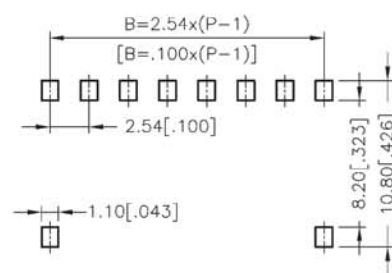


P.C.B. LAYOUT

TIM(R)

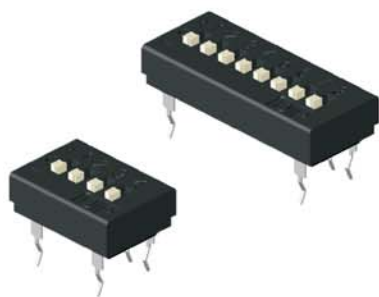
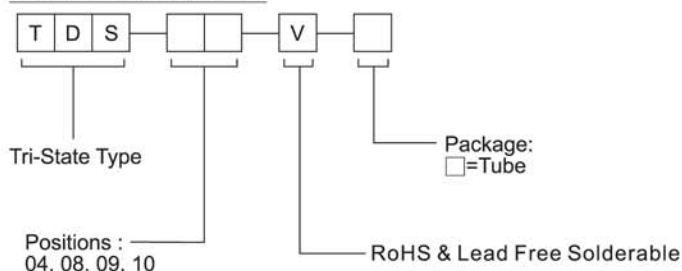


TIM-10 TIMR-10	10	26.56[1.046]	22.86[.900]
TIM-09 TIMR-09	9	24.02[.946]	20.32[.800]
TIM-08 TIMR-08	8	24.48[.846]	17.78[.700]
TIM-04 TIMR-04	4	11.32[.446]	7.62[.300]
PROD. NO.	NO. OF POS.	DIM. A	DIM. B



P.C.B. LAYOUT

HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 2000 operations.
Operation Force: 1000gf max.
Stroke: 1.0mm

ENVIRONMENTAL

Operation Temperature Range: -20° C to +70° C.
Storage Temperature Range: -40° C to +85° C.

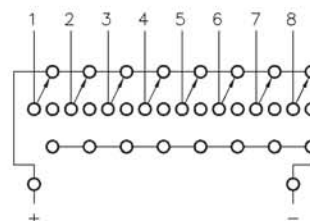
ELECTRICAL

Electrical Life: 2,000 operations.
Non-Switching Rating: 100mA, 50VDC,
Switching Rating: 25mA, 24VDC

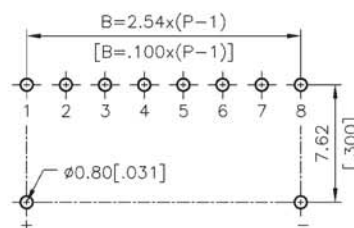
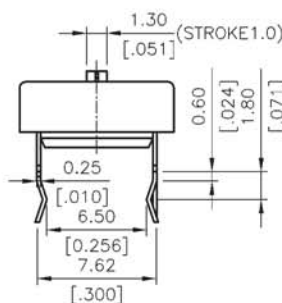
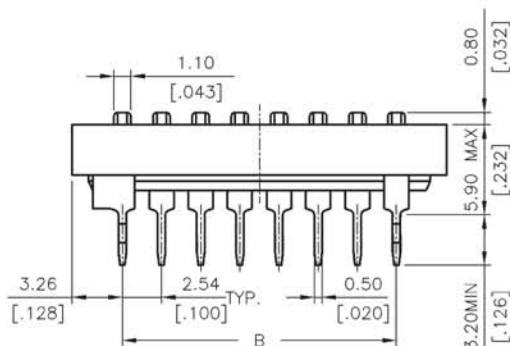
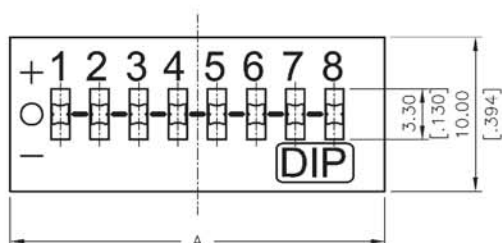
PACKAGE

TDS-04: 33 pcs/tube
TDS-08: 19 pcs/tube
TDS-09: 17 pcs/tube
TDS-10: 16 pcs/tube

CIRCUIT



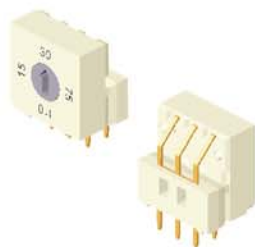
TDS



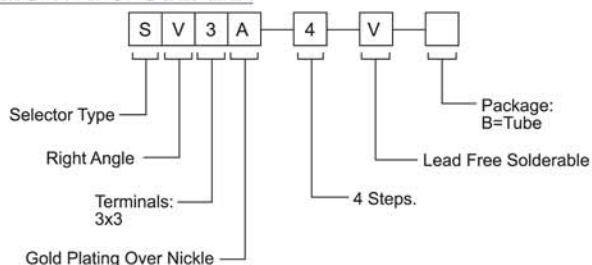
P.C.B. LAYOUT

TDS-10	10	29.38[1.157]	22.86[.900]
TDS-09	9	26.84[1.057]	20.32[.800]
TDS-08	8	24.30[.957]	17.78[.700]
TDS-04	4	14.14[.557]	7.62[.300]
PROD. NO.	NO. OF POS.	DIM. A	DIM. B

NEW



HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 20,000 steps
Operation Force : 200gf-cm max

ENVIRONMENTAL

Operation Temperature Range: -25° C to +80° C
Storage Temperature Range: -40° C to +85° C

ELECTRICAL

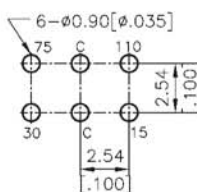
Electrical Life: 20,000 steps
Non-Switching Rating: 100mA, 50VDC
Switching Rating: 25 mA, 24 VDC

PACKAGE

Tube: 80 pcs/tube

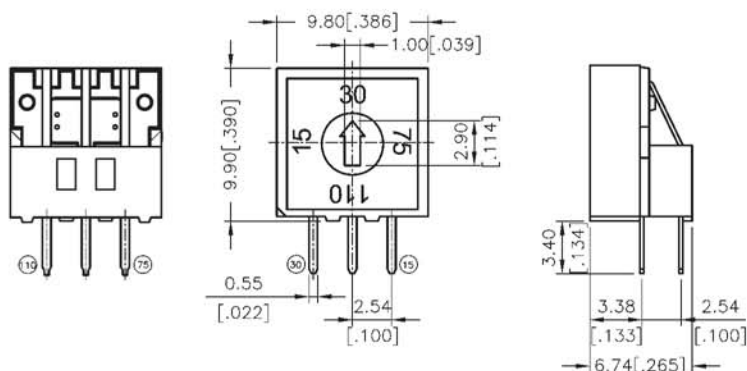
DIP SWITCH

SV3A-4



P.C.B. LAYOUT

ON				
OFF				
POSITION	CODE			
	15	30	75	110
15	○	●	●	●
30	●	○	●	●
75	●	●	○	●
110	●	●	●	○



General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

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RH, RV, RM & RS SERIES

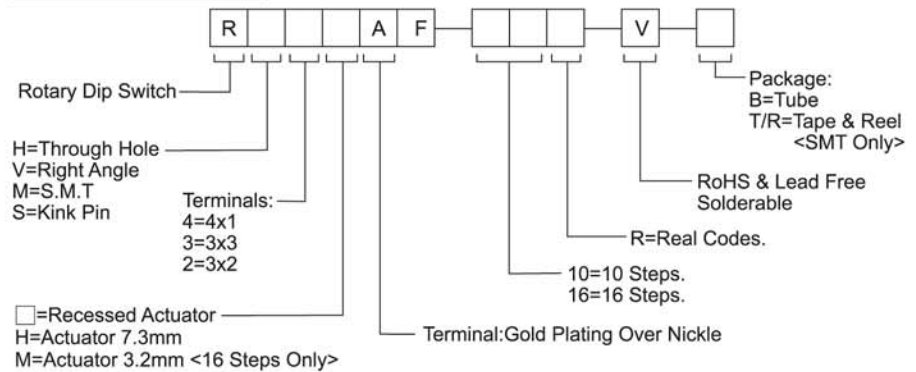
10x10mm
Rotary Type



19

DIP SWITCH

HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 20,000 steps
Operating Force: 200gf cm max.

ENVIRONMENTAL

Operation Temperature Range: -25° C to +80° C.
Storage Temperature Range: -40° C to +85° C.

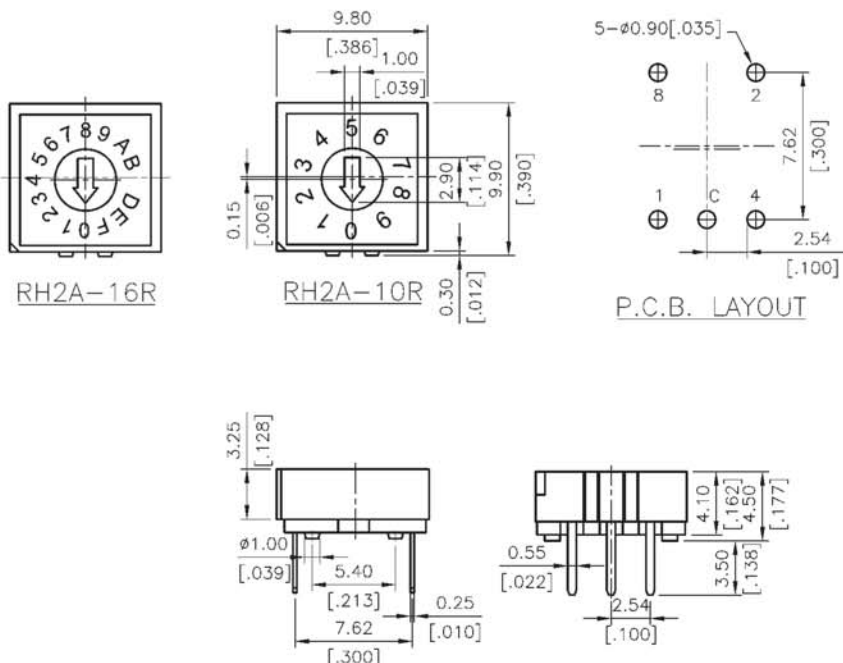
ELECTRICAL

Electrical Life: 20,000 steps
Non-Switching Rating: 100mA, 50VDC
Switching Rating: 24VDC, 25mA

PACKAGE

Tube: 48 pcs/tube
Tape and Reel:
750 pcs/reel (recessed actuator)
500 pcs/reel (3.2mm actuator)
250 pcs/reel (7.3mm actuator)

RH2

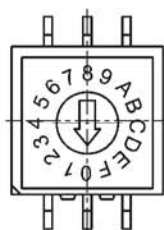


00N					
● OFF					
TYPE	POSITION	CODE			
		1	2	4	8
O10R	0	●	●	●	●
	1	○	●	●	●
	2	●	○	●	●
	3	○	○	●	●
	4	●	●	○	●
	5	○	●	○	●
	6	●	○	○	●
	7	○	○	○	●
	8	●	●	●	○
	9	○	●	●	○
O16R	A	●	○	●	○
	B	○	○	●	○
	C	●	●	○	○
	D	○	●	○	○
	E	●	○	○	○
	F	○	○	○	○

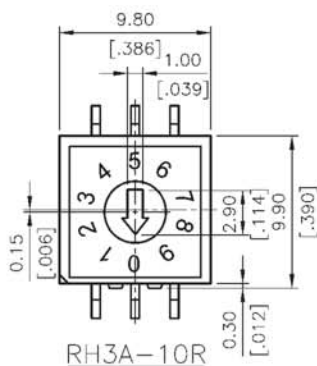
General Tolerance: ±0.2mm(±0.008")

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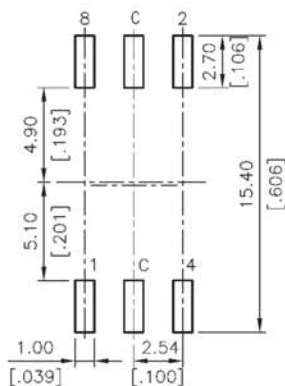
RM3



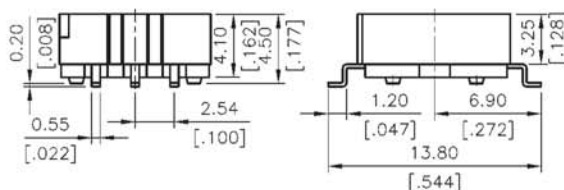
RH3A-16R



RH3A-10R

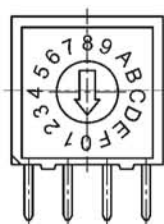


P.C.B. LAYOUT

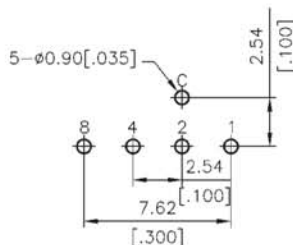
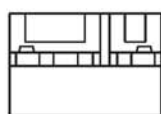


OON					
● OFF					
TYPE	POSITION	CODE			
		1	2	4	8
O10R	0	●	●	●	●
	1	○	●	●	●
	2	●	○	●	●
	3	○	○	●	●
	4	●	●	○	●
	5	○	●	○	●
	6	●	○	○	●
	7	○	○	○	●
	8	●	●	●	○
	9	○	●	●	○
O16R	A	●	○	●	○
	B	○	○	●	○
	C	●	●	○	○
	D	○	●	○	○
	E	●	○	○	○
	F	○	○	○	○

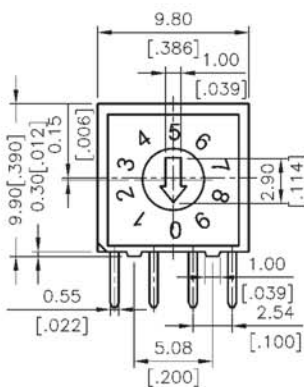
RV4



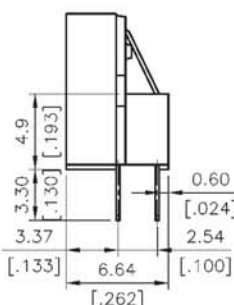
RV4A-16R



P.C.B. LAYOUT

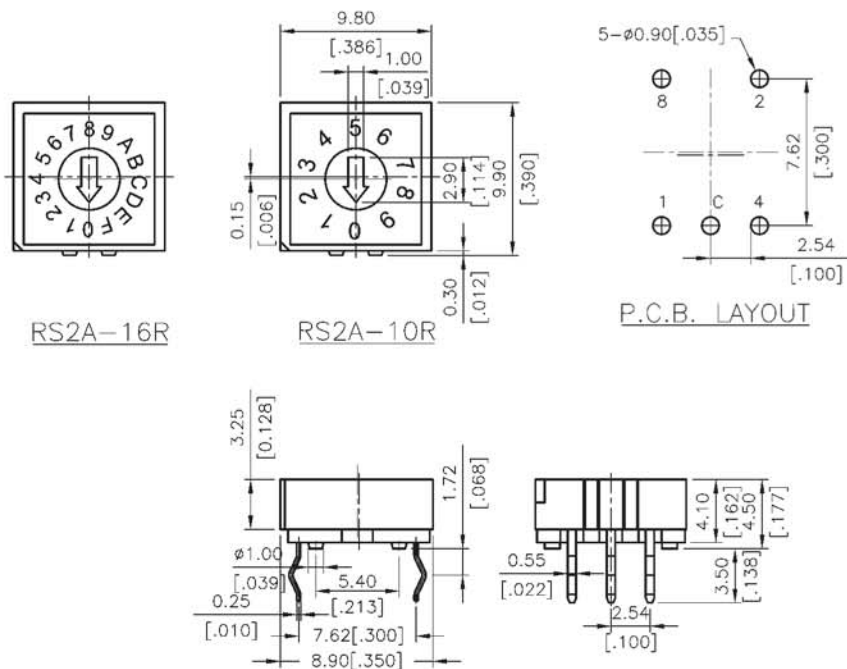


RV4A-10R



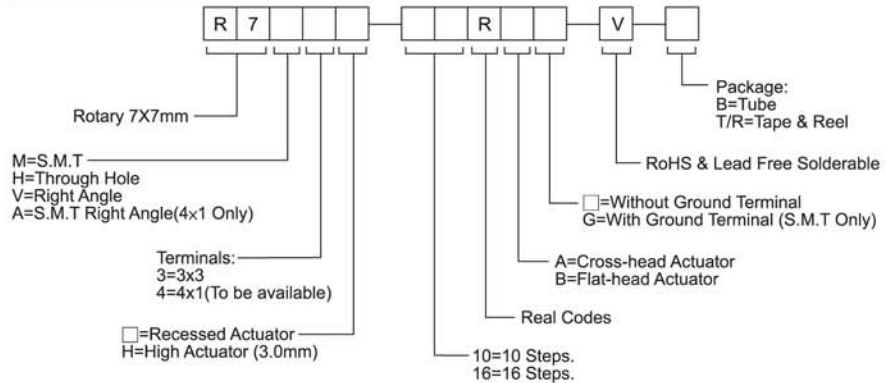
OON					
● OFF					
TYPE	POSITION	CODE			
		1	2	4	8
O10R	0	●	●	●	●
	1	○	●	●	●
	2	●	○	●	●
	3	○	○	●	●
	4	●	●	○	●
	5	○	●	○	●
	6	●	○	○	●
	7	○	○	○	●
	8	●	●	●	○
	9	○	●	●	○
O16R	A	●	○	●	○
	B	○	○	●	○
	C	●	●	○	○
	D	○	●	○	○
	E	●	○	○	○
	F	○	○	○	○

RS2



ON					
OFF					
TYPE	POSITION	1	2	4	8
O10R	0	●	●	●	●
	1	○	●	●	●
	2	●	○	●	●
	3	○	○	●	●
	4	●	●	○	●
	5	○	●	○	●
	6	●	○	○	●
	7	○	○	○	●
	8	●	●	●	○
	9	○	●	○	○
O16R	A	●	○	●	○
	B	○	○	●	○
	C	●	●	○	○
	D	○	○	○	○
	E	●	○	○	○
	F	○	○	○	○

HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 20,000 steps
Operation Force : 200gf-cm max

ENVIRONMENTAL

Operation Temperature Range: -30° C to +80° C
Storage Temperature Range: -40° C to +85° C

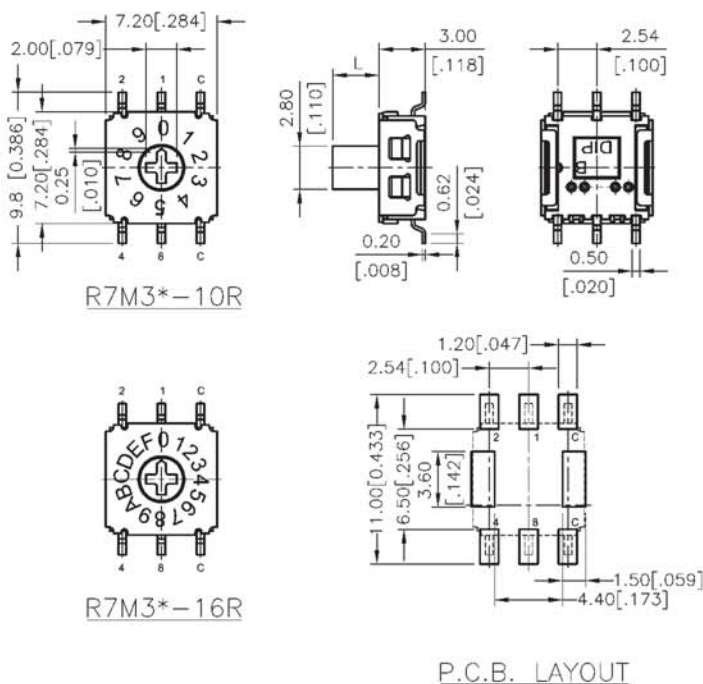
ELECTRICAL

Electrical Life: 20,000 steps
Switching Rating: 25 mA, 24 VDC

PACKAGE

R7H, R7M: 63 pcs/tube
R7V: 60 pcs/tube
R7M*: 1450 pcs/reel
R7M*H: 850 pcs/reel
R7A: 750 pcs/reel
R7A4H: 750 pcs/reel

R7M3



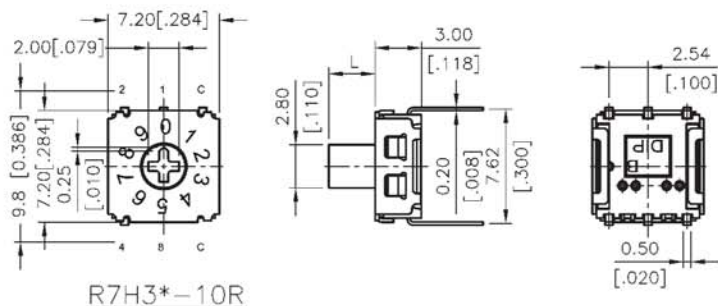
ON						
OFF						
TYPE	POSITION	CODE				
		1	2	4	8	
O10 STEP	0	●	●	●	●	
	1	○	●	●	●	
	2	●	○	●	●	
	3	○	○	●	●	
	4	●	●	○	●	
	5	○	●	○	●	
	6	●	○	○	●	
	7	○	○	○	●	
	8	●	●	●	○	
	9	○	●	●	○	
O16 STEP	A	●	○	●	○	
	B	○	○	●	○	
	C	●	●	○	○	
	D	○	●	○	○	
	E	●	○	○	○	
	F	○	○	○	○	

NAME	L
R7M3-10RAG-V	0
R7M3-16RAG-V	
R7M3H-10RAG-V	3.00[.118]
R7M3H-16RAG-V	

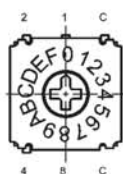
General Tolerance: ±0.2mm(±0.008")

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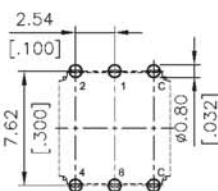
R7H3



R7H3*—10R



R7H3*—16R

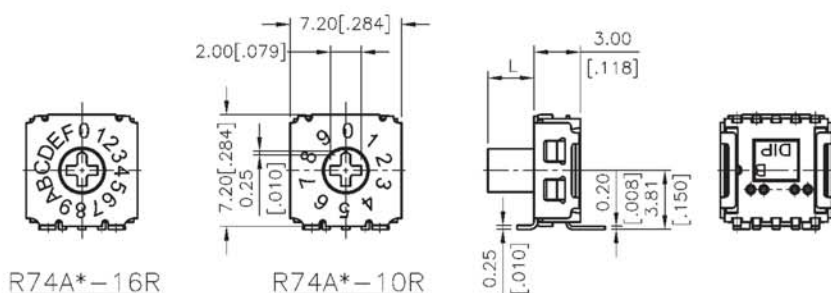


P.C.B. LAYOUT

OON		CODE			
● OFF					
TYPE	POSITION	1	2	4	8
O10 STEP	0	●	●	●	●
	1	○	●	●	●
	2	●	○	●	●
	3	○	○	●	●
	4	●	●	○	●
	5	○	○	○	●
	6	●	○	○	●
	7	○	○	○	●
	8	●	●	●	○
	9	○	●	●	○
O16 STEP	A	●	○	●	○
	B	○	○	●	○
	C	●	●	○	○
	D	○	●	○	○
	E	●	○	○	○
	F	○	○	○	○

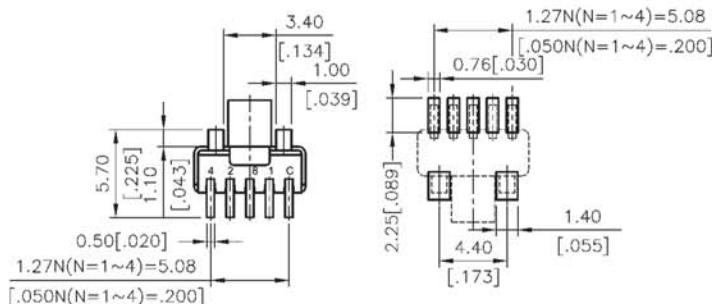
NAME	L
R7H3—10RAG—V	0
R7H3—16RAG—V	
R7H3H—10RAG—V	3.00[.118]
R7H3H—16RAG—V	

R7A4



R74A*—16R

R74A*—10R

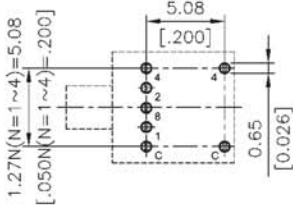
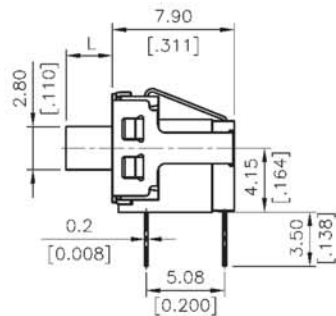
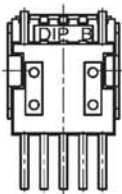
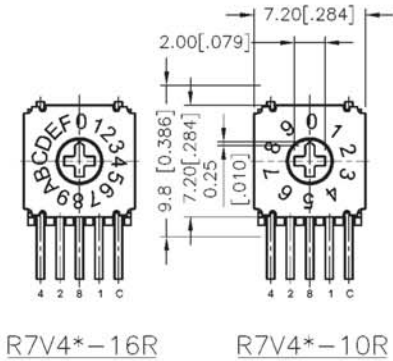


P.C.B. LAYOUT

OON		CODE			
● OFF					
TYPE	POSITION	1	2	4	8
O10 STEP	0	●	●	●	●
	1	○	●	●	●
	2	●	○	●	●
	3	○	○	●	●
	4	●	●	○	●
	5	○	○	○	●
	6	●	○	○	●
	7	○	○	○	●
	8	●	●	●	○
	9	○	●	●	○
O16 STEP	A	●	○	●	○
	B	○	○	●	○
	C	●	●	○	○
	D	○	●	○	○
	E	●	○	○	○
	F	○	○	○	○

NAME	L
R7A4—10RA—V	0
R7A4—16RA—V	
R7A4H—10RA—V	3.00[.118]
R7A4H—16RA—V	

R7V4

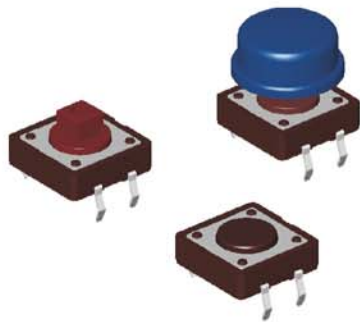
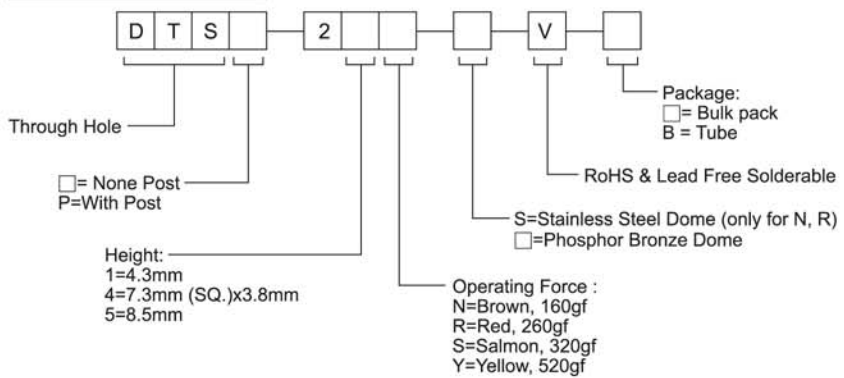


P.C.B. LAYOUT

ON OFF					
TYPE	POSITION	CODE			
		1	2	4	8
O10 STEP	0	●	●	●	●
	1	○	●	●	●
	2	●	○	●	●
	3	○	○	●	●
	4	●	●	○	●
	5	○	●	○	●
	6	●	○	○	●
	7	○	○	○	●
	8	●	●	●	○
	9	○	●	●	○
O16 STEP	A	●	○	●	○
	B	○	○	●	○
	C	●	●	○	○
	D	○	●	○	○
	E	●	○	○	○
	F	○	○	○	○

NAME	L
R7V4-10RA-V	0
R7V4-16RA-V	
R7V3H-10RA-V	3.00 [0.118]
R7V4H-16RA-V	

HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 520 ± 130gf Yellow(Y)
320 ± 80gf Salmon(S)
260 ± 50gf Red(R)
160 ± 50gf Brown(N)

Stroke : 0.35 ± 0.1mm

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C

Storage Temperature Range : -30°C to +80°C

ELECTRICAL

Electrical Life:

100,000 cycles for 520gf, 320gf, 260gf

200,000 cycles for 160gf

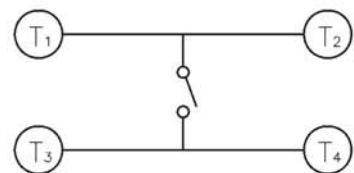
Rating : 50mA, 12VDC

PACKAGE

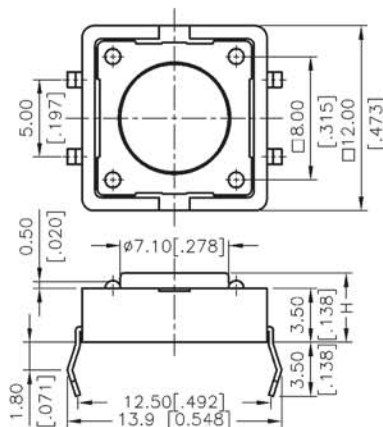
DTS-2: 500 pcs/bag

DTS-2: 40 pcs/tube

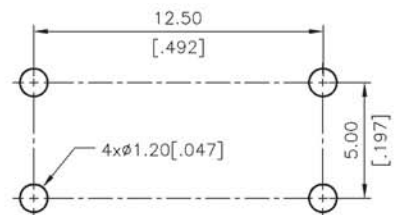
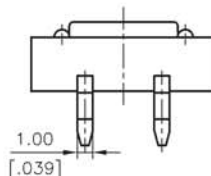
CIRCUIT



DTS-21.25

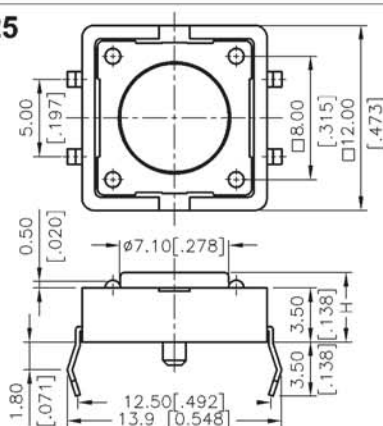


DTS-25□	8.50 [0.335]
DTS-21□	4.30 [0.169]
PROD. NO.	H

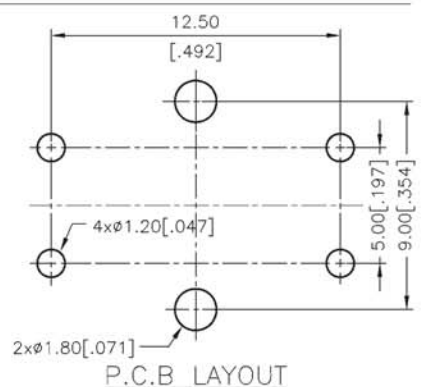
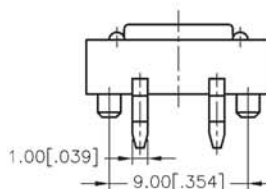


P.C.B. LAYOUT

DTSP-21.25



DTS-25□	8.50 [0.335]
DTS-21□	4.30 [0.169]
PROD. NO.	H

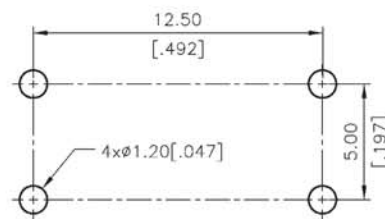
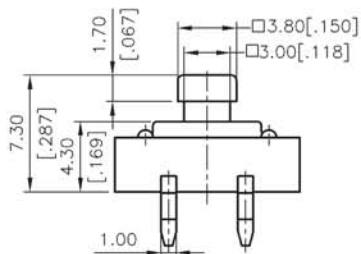
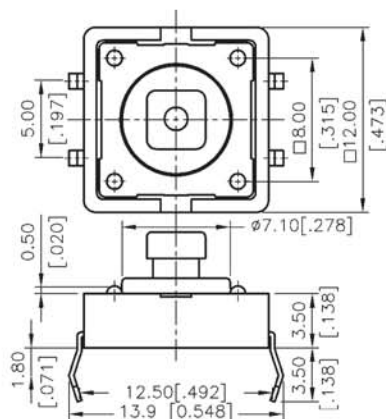


P.C.B. LAYOUT

General Tolerance: ±0.2mm (±0.008")

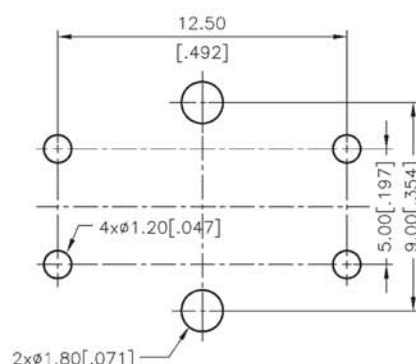
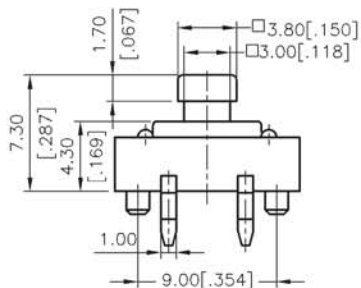
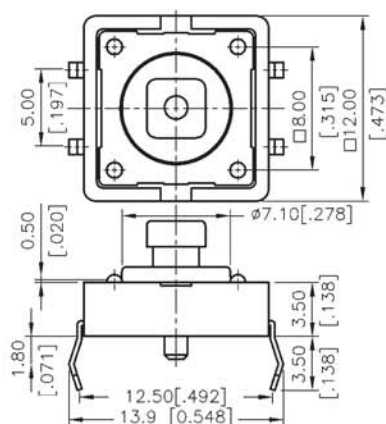
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DTS-24



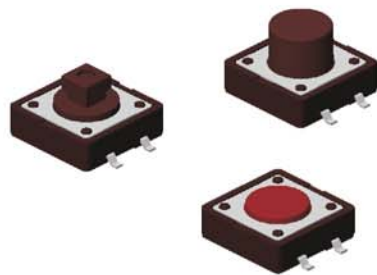
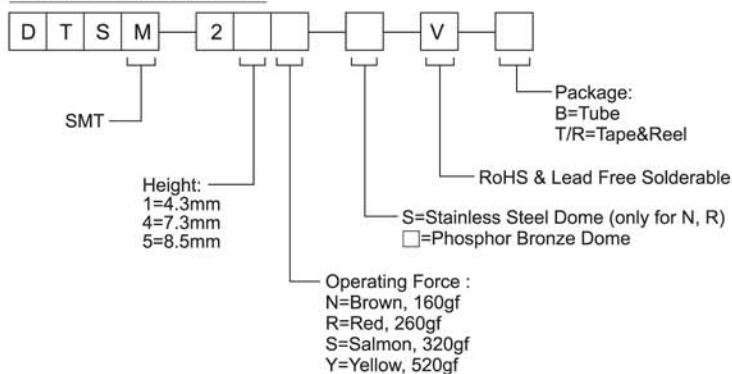
P.C.B. LAYOUT

DTSP-24



P.C.B. LAYOUT

HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 520 ± 130gf Yellow(Y)
320 ± 80gf Salmon(S)
260 ± 50gf Red(R)
160 ± 50gf Brown(N)

Stroke: 0.35 ± 0.1mm

ENVIRONMENTAL

Operation Temperature: -25°C to +70°C
Storage Temperature: -30°C to +80°C

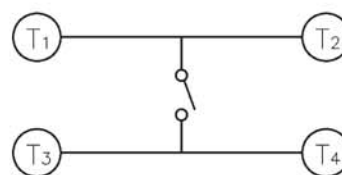
ELECTRICAL

Electrical Life:
100,000 cycles for 520gf, 320gf, 260gf
200,000 cycles for 160gf
Rating: 50mA, 12VDC

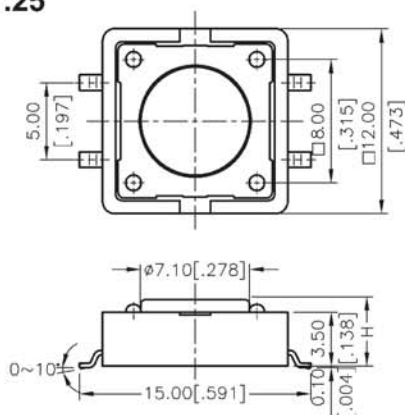
PACKAGE

DTSM-2: 40 pcs/tube
DTSM-21: 700 pcs/reel
DTSM-24: 500 pcs/reel
DTSM-25: 400 pcs/reel

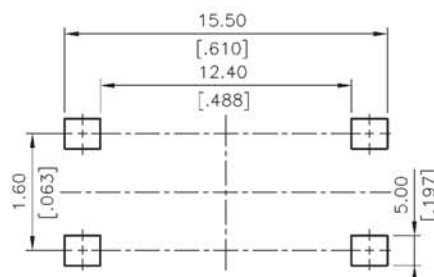
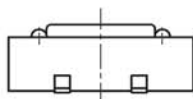
CIRCUIT



DTSM-21.25

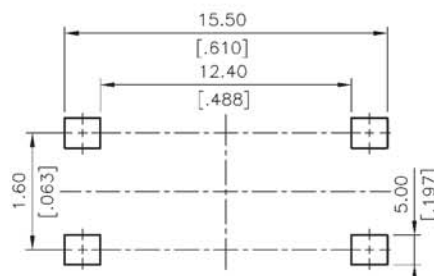
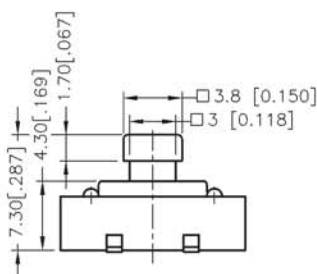
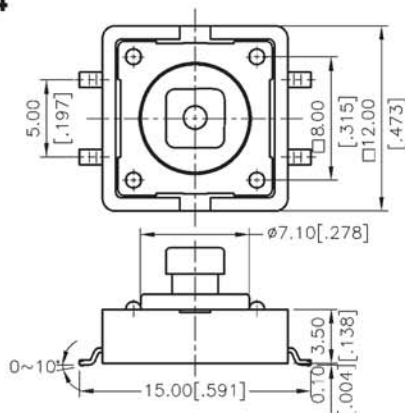


DTSM-25	8.50 [.335]
DTSM-21	4.30 [.169]
PROD. NO.	H



P.C.B. LAYOUT

DTSM-24



P.C.B. LAYOUT

General Tolerance: ±0.2mm (±0.008")

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DTSG(P)-2 SERIES

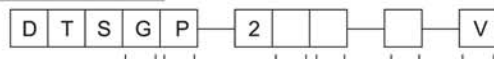
12x12 Through Hole With Ground Terminal Type



28

TACT SWITCH

HOW TO ORDER



RoHS & Lead Free Solderable

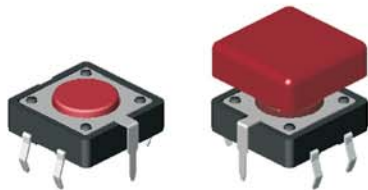
S=Stainless Steel Dome (only for N, R)
□=Phosphor Bronze Dome

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

Dimension H:
1=4.3mm
4=7.3mm
5=8.5mm

With Ground Terminal

With Post



SPECIFICATION

MECHANICAL

Operation Force: 520 ± 130gf Yellow(Y)
320 ± 80gf Salmon(S)
260 ± 50gf Red(R)
160 ± 50gf Brown(N)

Stroke : 0.35±0.1mm

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
Storage Temperature Range : -30°C to +80°C

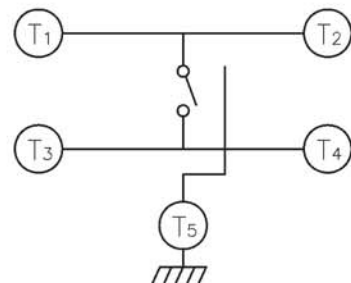
ELECTRICAL

Electrical Life:
100,000 cycles for 520gf, 320gf, 260gf
200,000 cycles for 160gf
Rating : 50mA, 12VDC

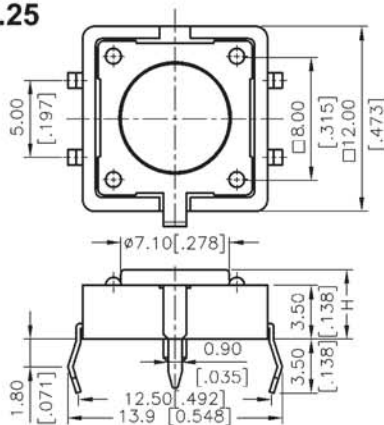
PACKAGE

500 pcs/bag

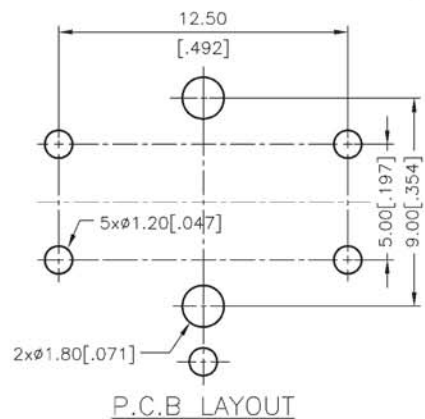
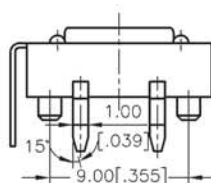
CIRCUIT



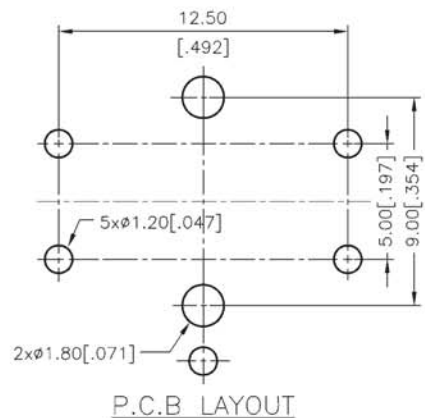
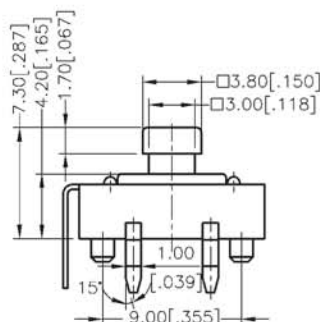
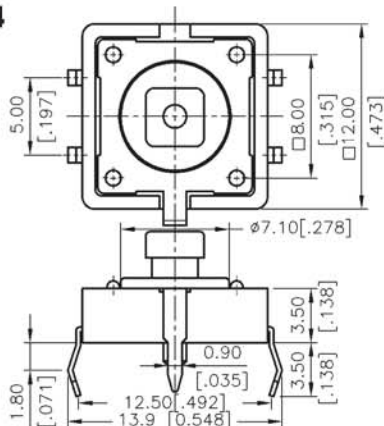
DTSGP-21.25



DTSP-25□-(G)	8.50 [.335]
DTSP-21□-(G)	4.30 [.169]
PROD. NO.	H



DTSGP-24



General Tolerance: ±0.2mm(±0.008")

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HOW TO ORDER

K T S C 2

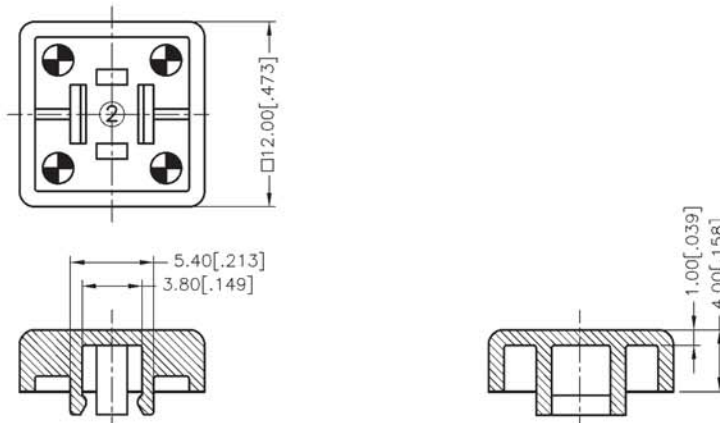
Cap color :
Y = Yellow
B = Blue
R = Red
I = Ivory
K = Black
G = Green
S = Salmon
Ge = Gray

Prod. Size : <Tactile Switch>
2 = 12X12 mm

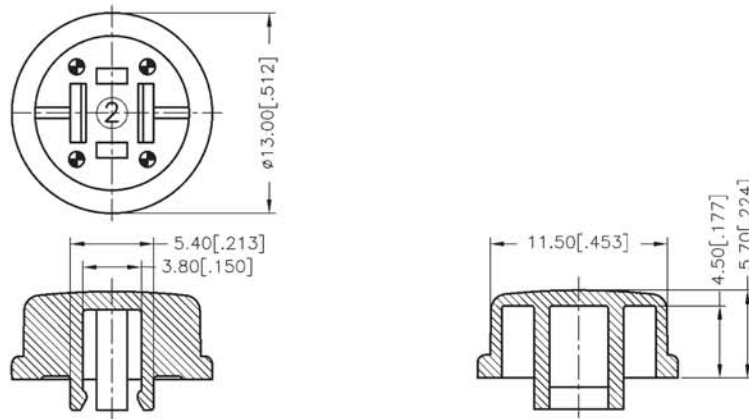
Cap Type :
1 = Square
2 = Round

* KTSC-2 can be applied on DTS□-24.
PACKAGE: 500 pcs/bag

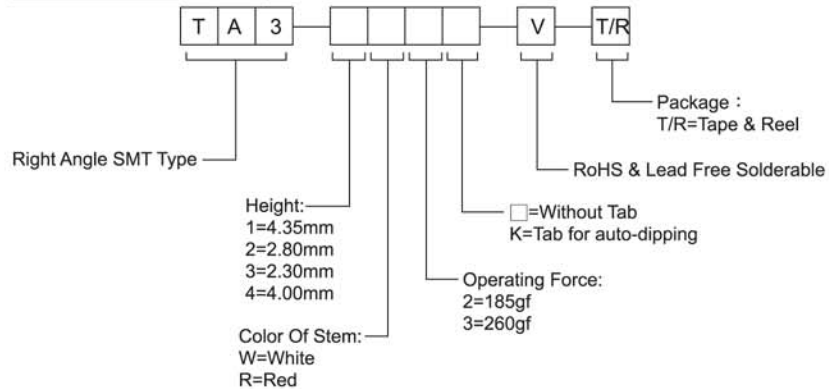
KTSC-21



KTSC-22



HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 200,000 cycles
Operation Force : 260±50gf, Red(R)
185±50gf, White(W)

Stroke : 0.15mm Min

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
Storage Temperature Range : -30°C to +80°C

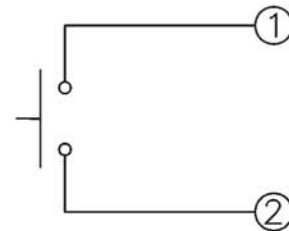
ELECTRICAL

Electrical Life : 200,000 cycles
Rating : 1.5mA, 5VDC

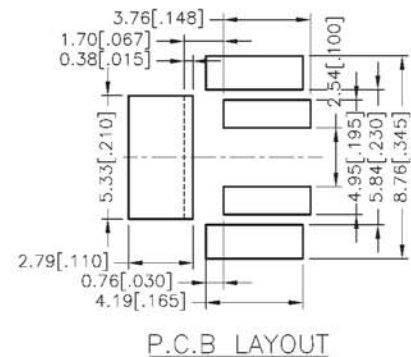
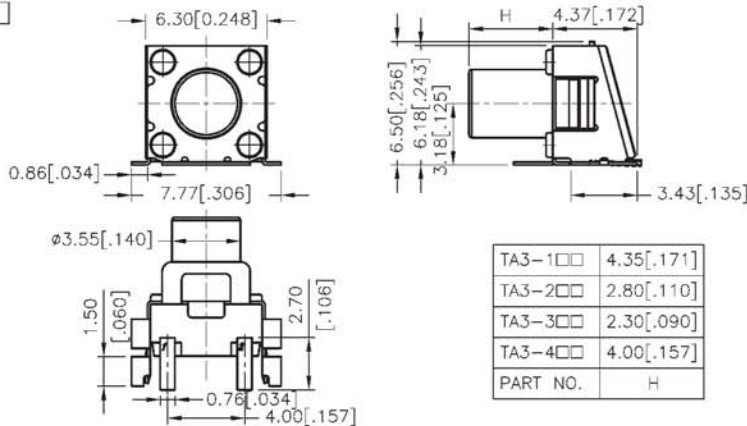
PACKAGE

TA3-1W2, 2W2, 1R3, 2R3: 600 pcs/reel
TA3-1W2K, 2W2K: 550 pcs/reel
TA3-1R3K, 2R3K: 550 pcs/reel

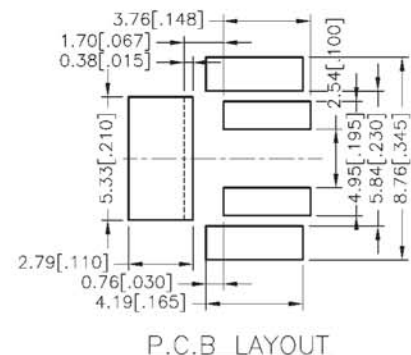
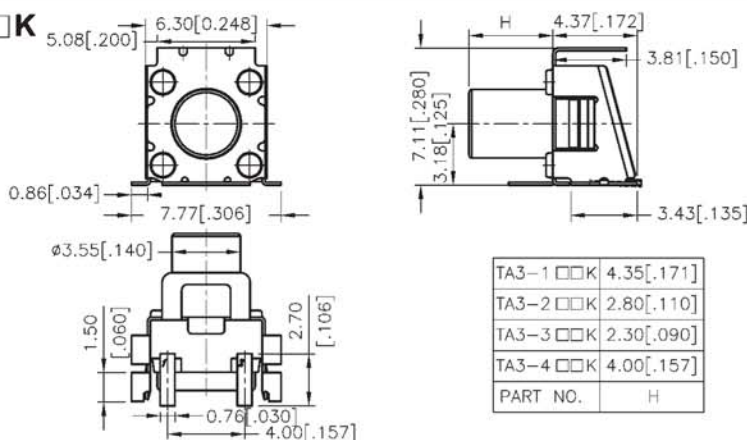
CIRCUIT



TA3-□□



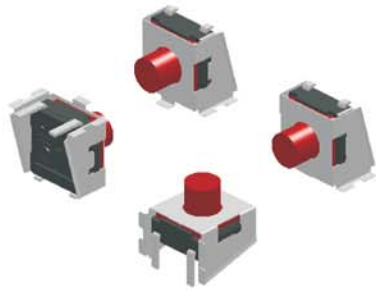
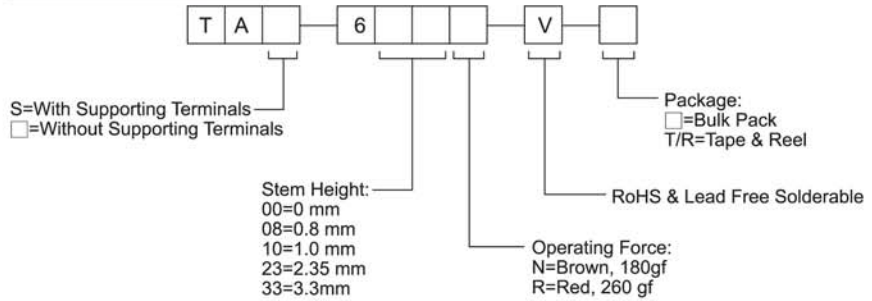
TA3-□□K



General Tolerance: ±0.2mm(±0.008")

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 260±70gf (Red)
180±50gf (Brown)

Stroke: 0.45±0.2mm.

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
Storage Temperature Range : -30°C to +80°C

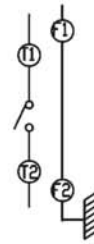
ELECTRICAL

Electrical Life: 500,000 cycles.
Rating: 50mA, 12VDC.

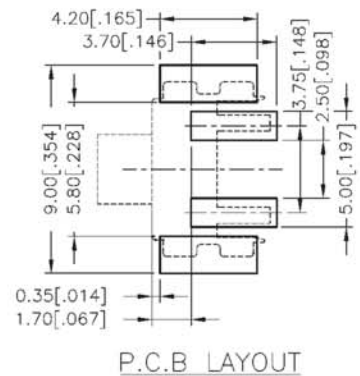
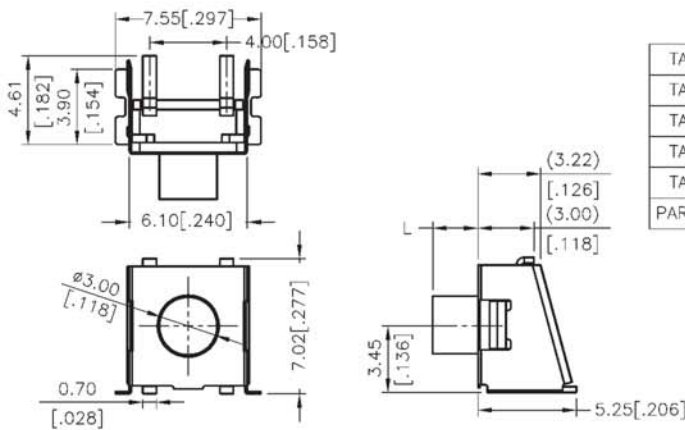
PACKAGE

500 pcs/bag
TA(S)-600-T/R: 700 pcs/reel
TA(S)-608-T/R: 700 pcs/reel
TA(S)-610-T/R: 700 pcs/reel
TA(S)-623-T/R: 700 pcs/reel
TA(S)-633-T/R: 500 pcs/reel

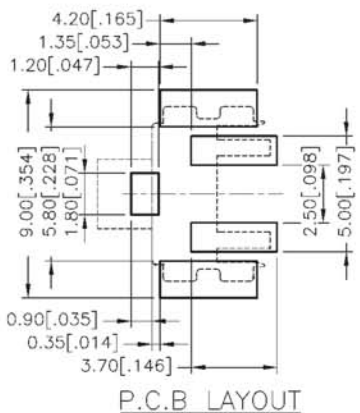
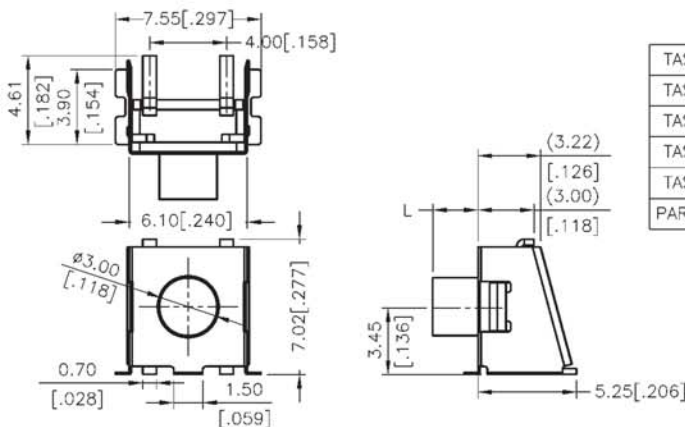
CIRCUIT



TA-6

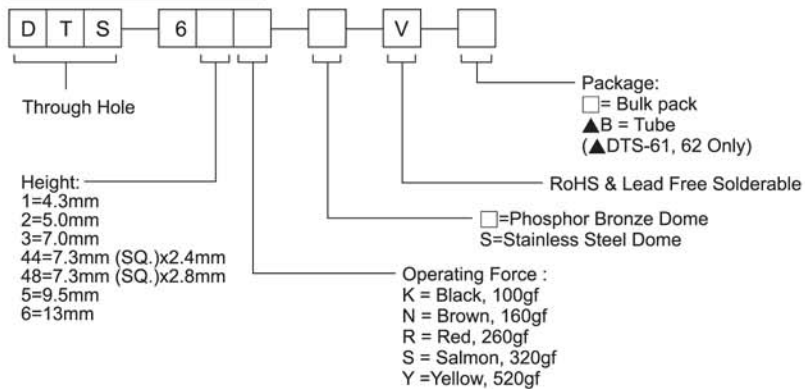


TAS-6



General Tolerance: ±0.2mm(±0.008")

HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 520 ± 130gf Yellow(Y)
320 ± 80gf Salmon(S)
260 ± 50gf Red(R)
160 ± 50gf Brown(N)
100 ± 50gf Black(K)

Stroke : 0.25+0.2/-0.1mm

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
Storage Temperature Range : -30°C to +80°C

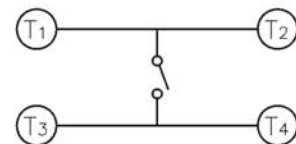
ELECTRICAL

Electrical Life:
*Phosphor Bronze Dome
50,000 cycles for 320gf, 520gf
100,000 cycles for 260gf
200,000 cycles for 100gf, 160gf
*Stainless Steel Dome
300,000 cycles for 320gf, 520gf
500,000 cycles for 260gf
1,000,000 cycles for 100gf, 160gf
Rating: 50mA, 12VDC

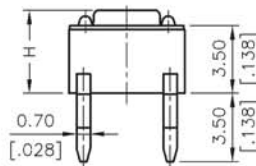
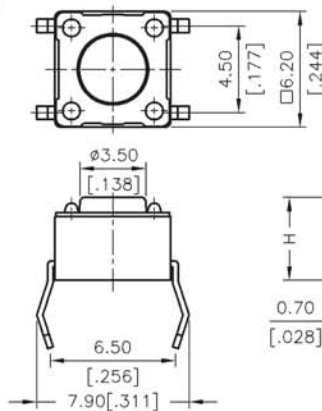
PACKAGE

DTS-6: 1000 pcs/bag
DTS-61/62: 77 pcs/tube

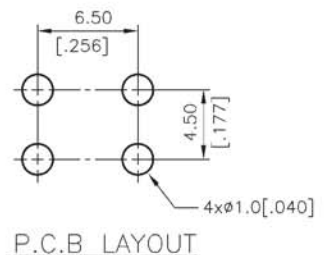
CIRCUIT



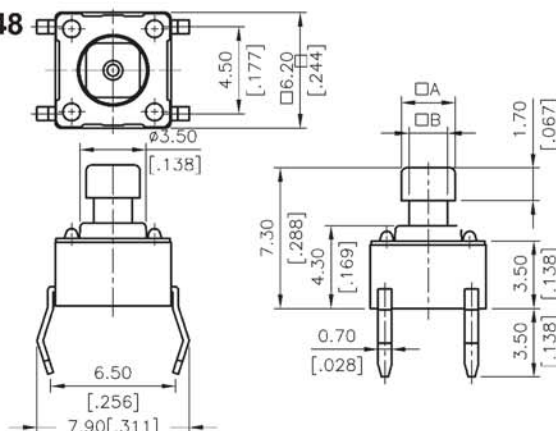
DTS-61~66



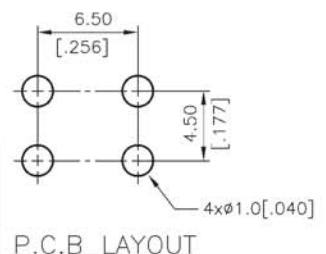
DTS-66□-V	13.00[.512]
DTS-65□-V	9.50[.374]
DTS-63□-V	7.00[.275]
DTS-62□-V	5.00[.197]
DTS-61□-V	4.30[.169]
PROD. NO.	H



DTS-644,648



DTS-644□-V	□A	2.40	0.095
	□B	1.60	0.063
DTS-648□-V	□A	2.80	0.110
	□B	2.00	0.079
PROD. NO.	LOC.	MM	INCH.



General Tolerance: ±0.2mm(±0.008")

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DTSA-6 & DTSG-6 SERIES

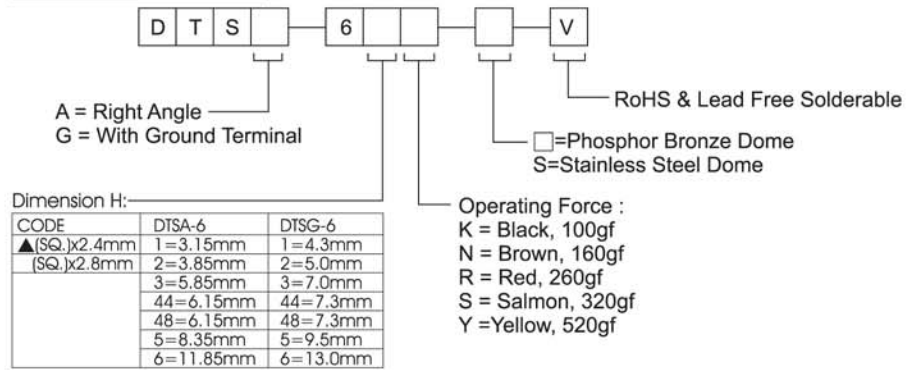
6x6 Right Angle & Ground Terminal Type



33

TACT SWITCH

HOW TO ORDER



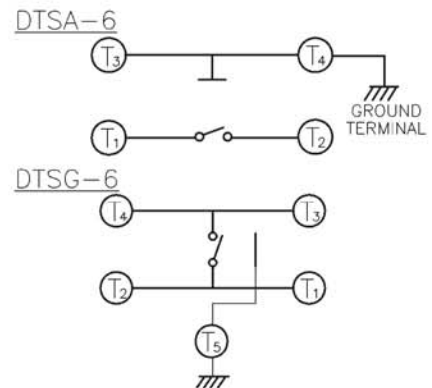
ELECTRICAL

Electrical Life:
*Phosphor Bronze Dome
50,000 cycles for 320gf, 520gf
100,000 cycles for 260gf
200,000 cycles for 100gf, 160gf
*Stainless Steel Dome
300,000 cycles for 320gf, 520gf
500,000 cycles for 260gf
1,000,000 cycles for 100gf, 160gf
Rating: 50mA, 12VDC

PACKAGE

DTSA-6: 500 pcs/bag
DTSG-6: 1000 pcs/bag

CIRCUIT



SPECIFICATION

MECHANICAL

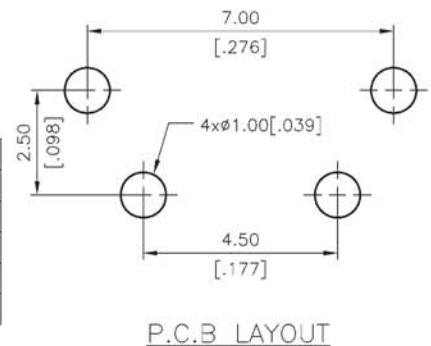
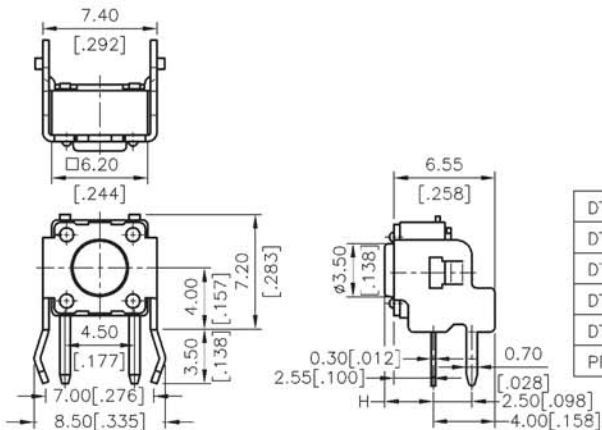
Operation Force: 520 ± 130gf Yellow(Y)
320 ± 80gf Salmon(S)
260 ± 50gf Red(R)
160 ± 50gf Brown(N)
100 ± 50gf Black(K)

Stroke : 0.25+0.2/-0.1mm

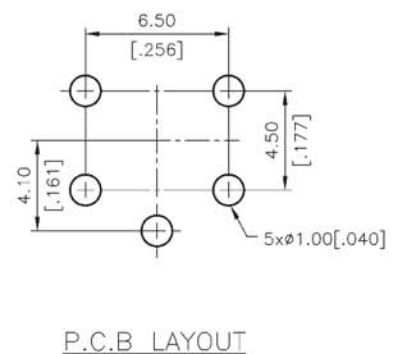
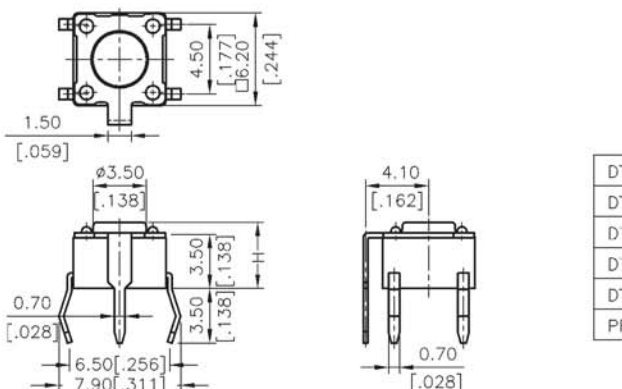
ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
Storage Temperature Range : -30°C to +80°C

DTSA-6



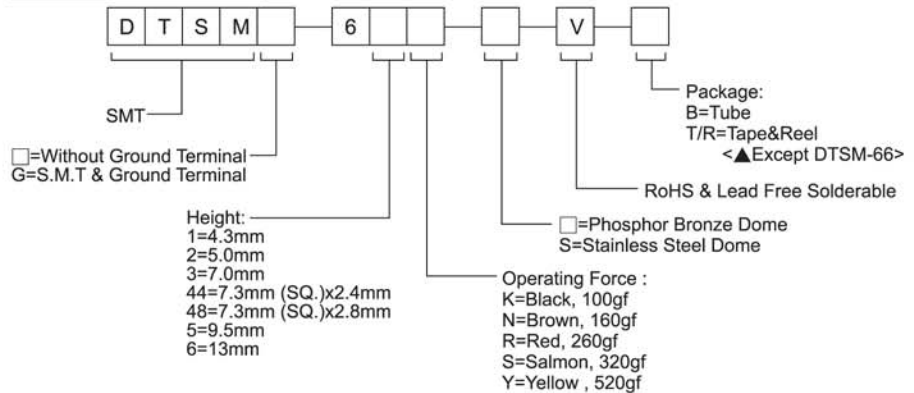
DTSG-6



General Tolerance: ±0.2mm(±0.008")

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 520 ± 130gf Yellow (Y)
320 ± 80gf Salmon (S)
260 ± 50gf Red (R)
160 ± 50gf Brown (N)
100 ± 50gf Black (K)
Stroke: 0.25 ± 0.2mm / -0.1mm

ENVIRONMENTAL

Operation Temperature: -25°C to +70°C
Storage Temperature: -30°C to +80°C

ELECTRICAL

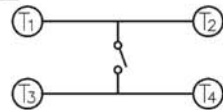
Electrical Life: *Phosphor Bronze Dome
50,000 cycles for 320gf, 520gf
100,000 cycles for 260gf
200,000 cycles for 100gf, 160gf
*Stainless Steel Dome
300,000 cycles for 320gf, 520gf
500,000 cycles for 260gf
1,000,000 cycles for 100gf, 160gf
Rating: 50mA, 12VDC

PACKAGE

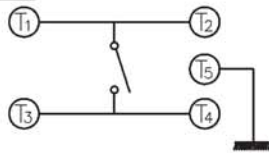
DTSM(G)-61:1000 pcs/reel
DTSM-62:900 pcs/reel
DTSMG-62:1000 pcs/reel
DTSM(G)-63:700 pcs/reel
DTSM-64:500 pcs/reel (To be changed to 700 pcs/reel for Jan 2008)
DTSMG-64:700 pcs/reel
DTSM(G)-65:380 pcs/reel

CIRCUIT

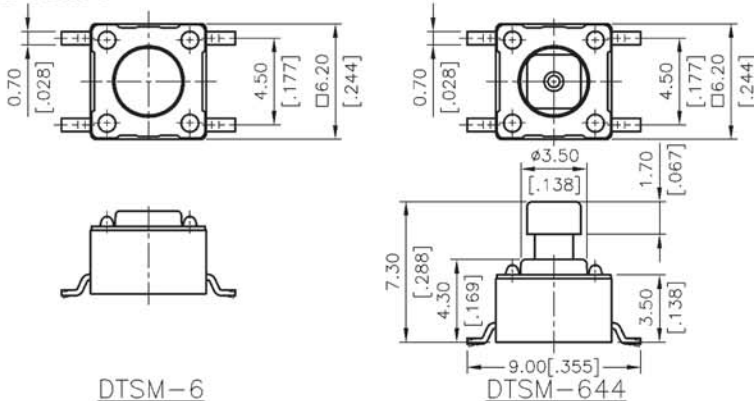
DTSM-6



DTSMG-6

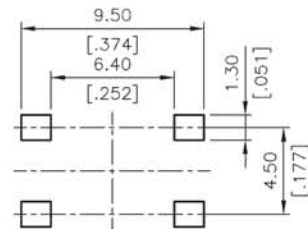


DTSM-6



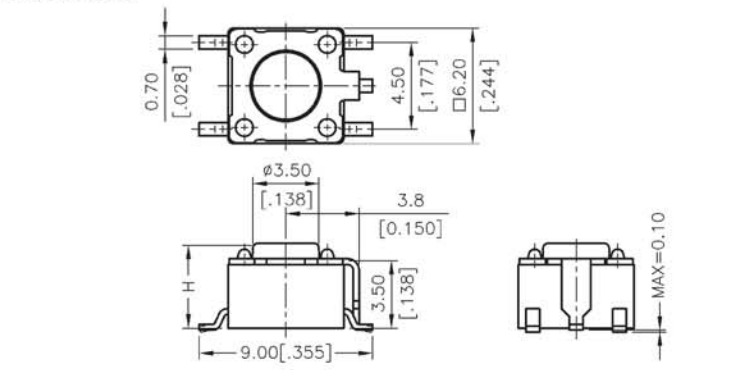
DTSM-644□-V	□A	2.40	0.095
	□B	1.60	0.063
DTSM-648□-V	□A	2.80	0.110
	□B	2.00	0.079
PROD. NO.	LOC.	MM	INCH.

DTSM-66□-V	13.00	[.512]
DTSM-65□-V	9.50	[.374]
DTSM-63□-V	7.00	[.275]
DTSM-62□-V	5.00	[.197]
DTSM-61□-V	4.30	[.169]
PROD. NO.	H	

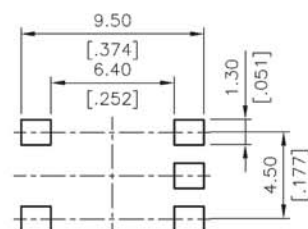


P.C.B. LAYOUT

DTSMG-6



DTSMG-66□-V	13.00	[.512]
DTSMG-65□-V	9.50	[.374]
DTSMG-63□-V	7.00	[.275]
DTSMG-62□-V	5.00	[.197]
DTSMG-61□-V	4.30	[.169]
PROD. NO.	H	

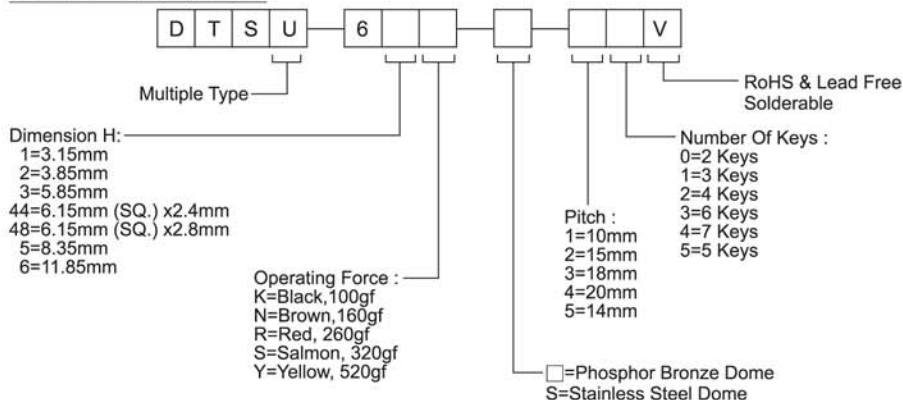


P.C.B. LAYOUT

General Tolerance: ±0.2mm (±0.008")

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 520±130gf Yellow (Y)
320±80gf Salmon (S)
260±50gf Red (R)
160±50gf Brown (N)
100±50gf Black (K)

Stroke : 0.25±0.2mm/-0.1mm

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C

Storage Temperature Range : -30°C to +80°C

ELECTRICAL

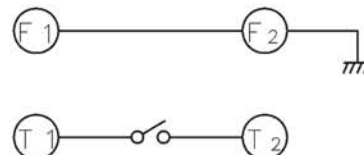
Electrical Life: *Phosphor Bronze Dome
50,000 cycles for 320gf, 520gf
100,000 cycles for 260gf
200,000 cycles for 100gf, 160gf
*Stainless Steel Dome
300,000 cycles for 320gf, 520gf
500,000 cycles for 260gf
1,000,000 cycles for 100gf, 160gf

Rating: 50mA, 12VDC

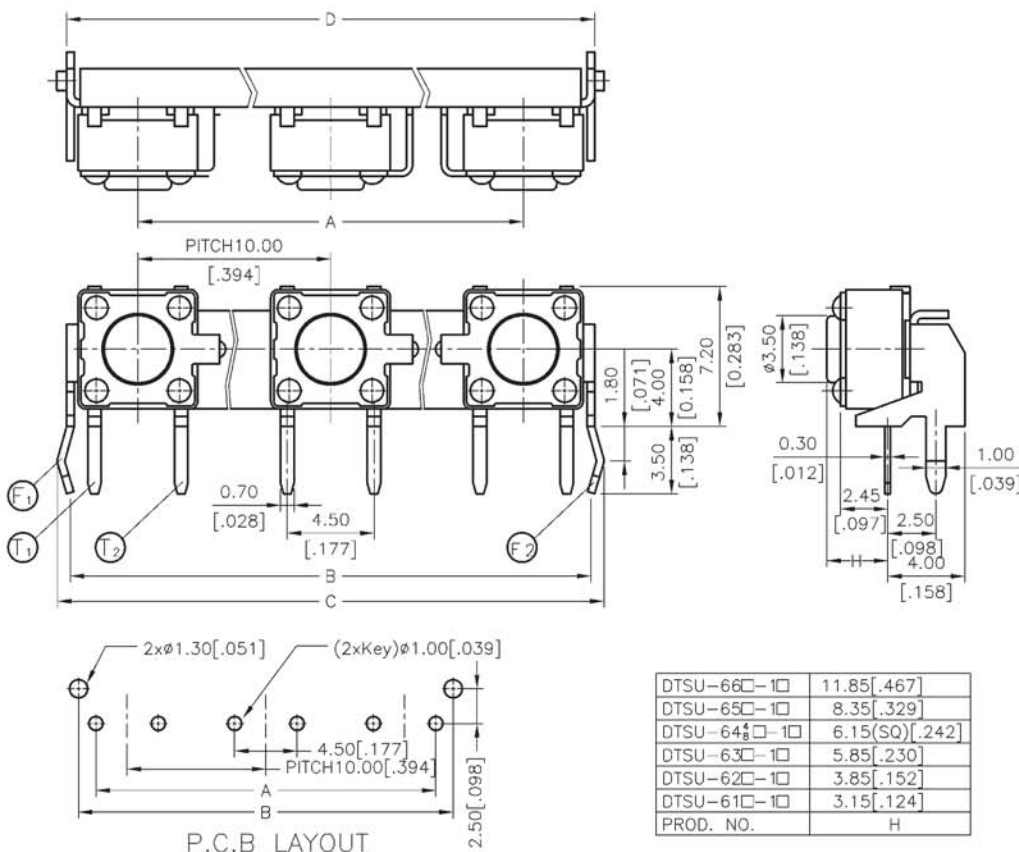
PACKAGE

DTSU-62-10: 190 pcs/set
DTSU-62-11: 70 pcs/set
DTSU-62-12: 56 pcs/set
DTSU-62-13: 32 pcs/set
DTSU-62-14: 57 pcs/set
DTSU-62-15: 76 pcs/set
DTSU-62-20: 90 pcs/set
DTSU-62-21: 76 pcs/set
DTSU-62-22: 57 pcs/set
DTSU-62-23: 26 pcs/set
DTSU-62-31: 76 pcs/set
DTSU-62-32: 42 pcs/set
DTSU-62-33: 38 pcs/set
DTSU-62-42: 38 pcs/set
DTSU-62-52: 40 pcs/set

CIRCUIT



DTSU-6



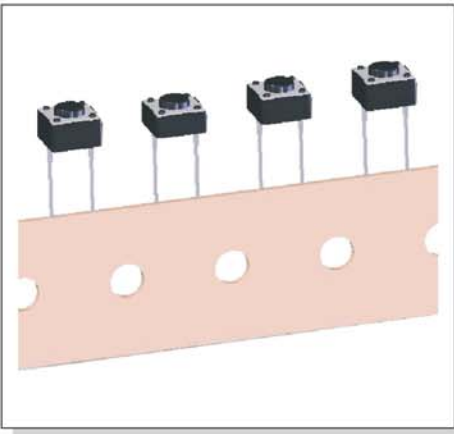
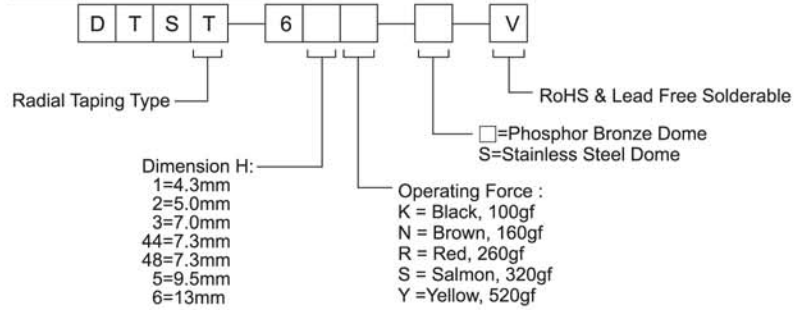
10	2	10	17	18.7	17.4
	3	20	27	28.7	27.4
	4	30	37	38.7	37.4
	5	40	47	48.7	47.4
	6	50	57	58.7	57.4
	7	60	67	68.7	67.4
	8	70	77	78.7	77.4
14	2	14	22	23.5	22.4
	3	28	36	37.5	36.4
	4	42	50	51.5	50.4
	5	56	64	65.5	64.4
	6	70	78	79.5	78.4
	7	84	92	93.5	92.4
	8	98	106	107.5	106.4
15	2	15	22	23.7	22.4
	3	30	37	38.7	37.4
	4	45	52	53.7	52.4
	5	60	67	68.7	67.4
	6	75	82	83.7	82.4
	7	90	97	98.7	97.4
	8	105	112	113.7	112.4
18	2	18	25	26.7	25.4
	3	36	43	44.7	43.4
	4	54	61	62.7	61.4
	5	72	79	80.7	79.4
	6	90	97	98.7	97.4
	7	108	115	116.7	115.4
	8	126	133	134.7	133.4
20	2	20	27	28.7	27.4
	3	40	47	48.7	47.4
	4	60	67	68.7	67.4
	5	80	87	88.7	87.4
	6	100	107	108.7	107.4
	7	120	127	128.7	127.4
	8	140	147	148.7	147.4
PITCH (mm)	Q'TY Of Keys	A DIM	B DIM	C DIM	D DIM

DTSU-66□-□	11.85[.467]
DTSU-65□-□	8.35[.329]
DTSU-64□-□	6.15(SQ)[.242]
DTSU-63□-□	5.85[.230]
DTSU-62□-□	3.85[.152]
DTSU-61□-□	3.15[.124]
PROD. NO.	H

General Tolerance: ±0.2mm(±0.008")

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 520 ± 130gf Yellow(Y)
 320 ± 80gf Salmon(S)
 260 ± 50gf Red(R)
 160 ± 50gf Brown(N)
 100 ± 50gf Black(K)

Stroke : 0.25+0.2/-0.1mm

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
 Storage Temperature Range : -30°C to +80°C

ELECTRICAL

Electrical Life:

*Phosphor Bronze Dome

- 50,000 cycles for 320gf, 520gf
- 100,000 cycles for 260gf
- 200,000 cycles for 100gf, 160gf

*Stainless Steel Dome

- 300,000 cycles for 320gf, 520gf
- 500,000 cycles for 260gf
- 1,000,000 cycles for 100gf, 160gf

Rating: 50mA, 12VDC

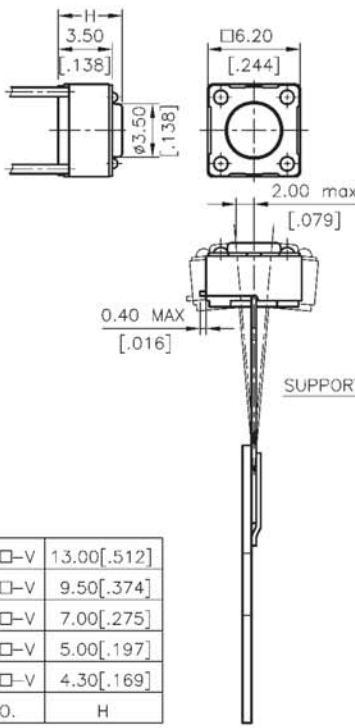
PACKAGE

900 pcs/box
 9 boxes/Carton

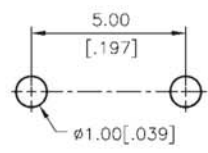
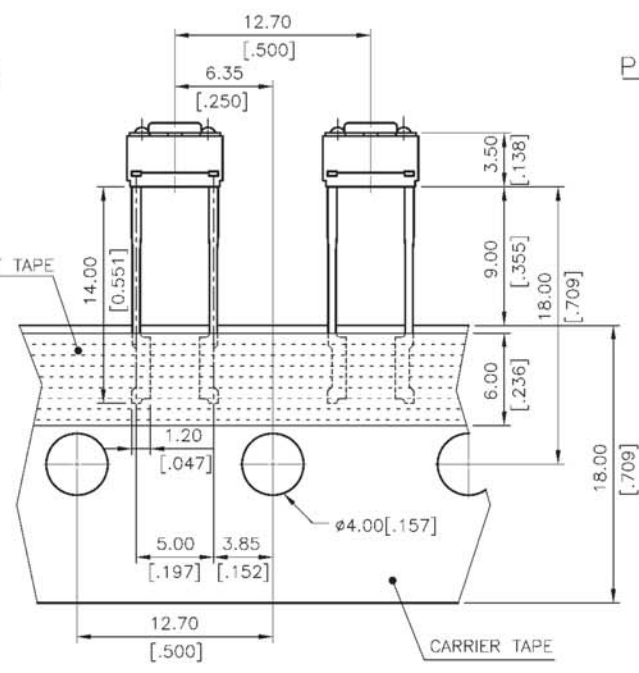
CIRCUIT



DTST-6



DTST-66□-V	13.00 [0.512]
DTST-65□-V	9.50 [0.374]
DTST-63□-V	7.00 [0.275]
DTST-62□-V	5.00 [0.197]
DTST-61□-V	4.30 [0.169]
PROD. NO.	H



P.C.B. LAYOUT

General Tolerance: ±0.2mm (±0.008")

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HOW TO ORDER

K T S C 6

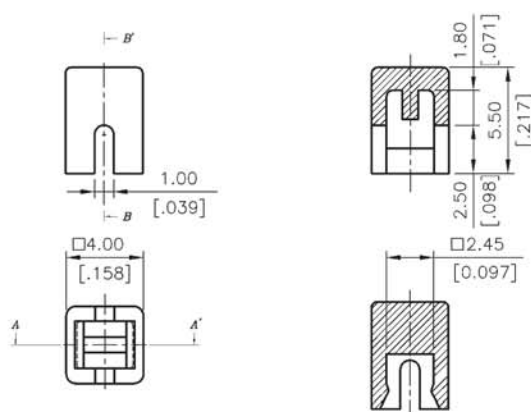
Prod. Size : <Tactile Switch>
6 = 6X6 mm
▲ < DTS□-644 Only >
▲ < Bulk Pack >

Cap Type :
1 = Square
2 = Round

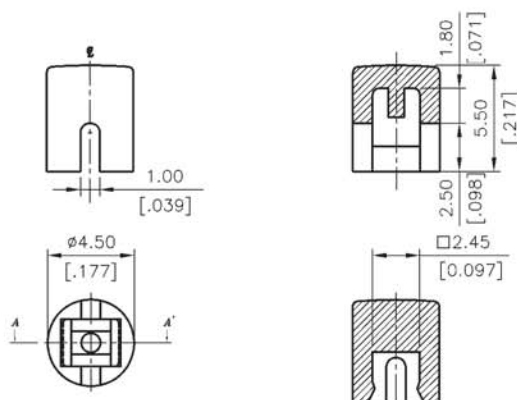
Cap color :
Y = Yellow
B = Blue
R = Red
I = Ivory
K = Black
G = Green
S = Salmon
Ge = Gray

* KTSC-6 can be applied on DTS□-644.
PACKAGE: 1500 pcs/bag

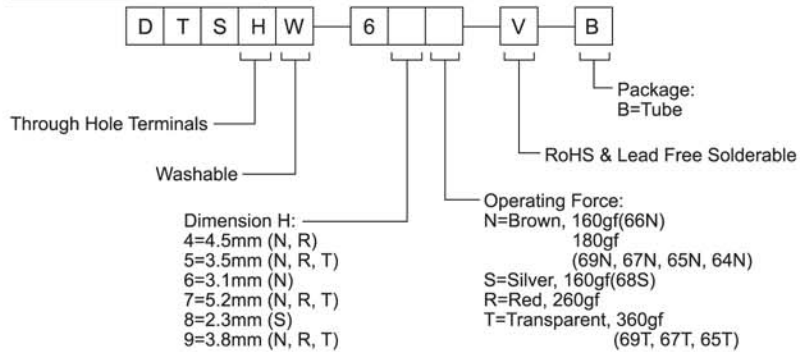
KTSC-61



KTSC-62



HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force:
 360±90gf, Transparent (T), 69, 67, 65
 260±70gf Red (R), 69, 67, 65, 64
 180±50gf Brown (N), 69, 67, 65, 64
 160±50gf Brown (N), 66
 160±50gf Silver (S), 68
 Stroke:
 0.25±0.20 / - 0.1 mm 66N, 68S
 0.45±0.2mm, [67 · 69 N/R], [64 · 65N/R/T]
 0.6±0.2mm, 69, 67T

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
 Storage Temperature Range : -30°C to +80°C

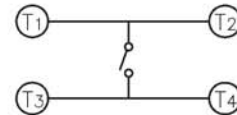
ELECTRICAL

Electrical Life:
 500,000 cycles min. for 69, 67, 65, 64
 100,000 cycles min. for 66, 68
 Rating: 50mA, 12VDC

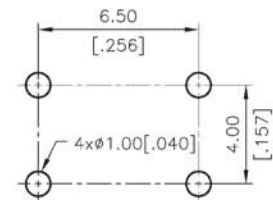
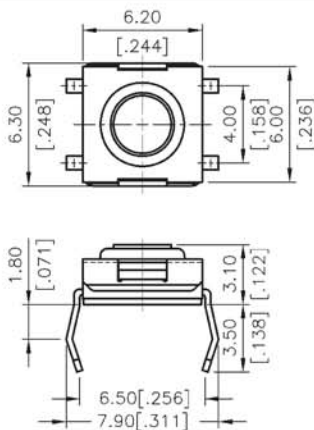
PACKAGE

Tube: 75 pcs/tube

CIRCUIT

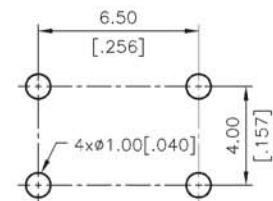
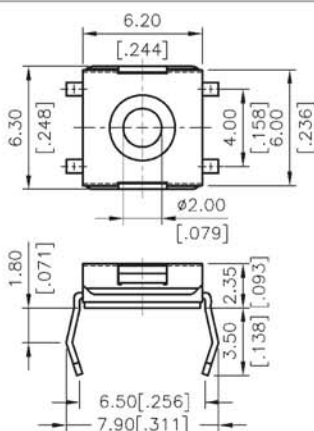


DTSHW-66



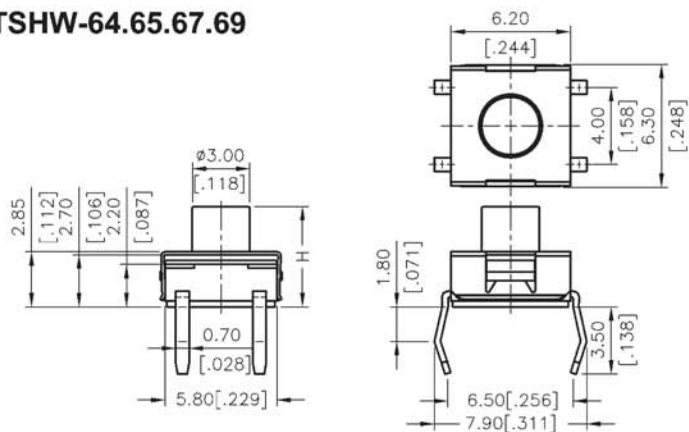
P.C.B. LAYOUT

DTSHW-68

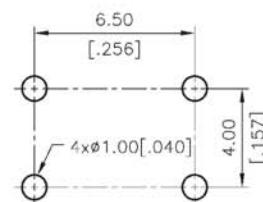


P.C.B. LAYOUT

DTSHW-64.65.67.69

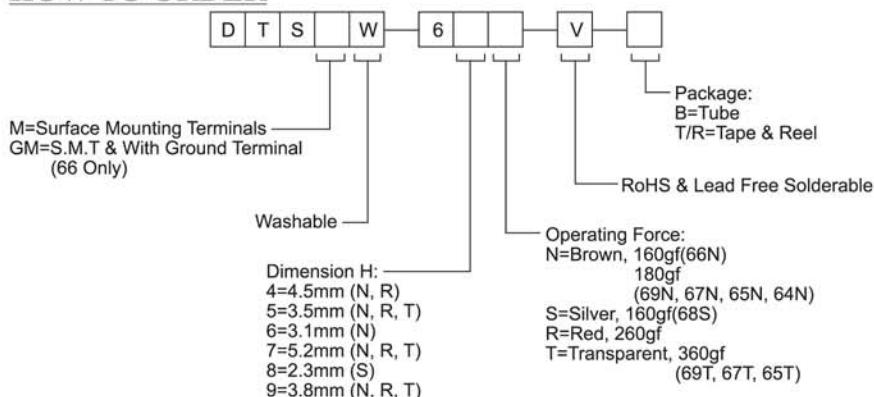


DTSHW-69	3.80 [.150]
DTSHW-67	5.20 [.205]
DTSHW-65	3.50 [.138]
DTSHW-64	4.50 [.177]
PART NO.	H



P.C.B. LAYOUT

HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force:
360±90gf, Transparent (T), 69, 67, 65
260±70gf, Red (R), 69, 67, 65, 64
180±50gf, Brown (N), 69, 67, 65, 64
160±50gf, Brown (N), 66
160±50gf, Silver (S), 68
Stroke:
0.25 ±0.20 / - 0.1 mm 66N, 68S
0.45±0.2mm, [67 · 69 N/R], [64 · 65N/R/T]
0.6±0.2mm, 69, 67T

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
Storage Temperature Range : -30°C to +80°C

ELECTRICAL

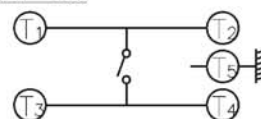
Electrical Life:
500,000 cycles min. for 69, 67, 65, 64
100,000 cycles min. for 66, 68
Rating: 50mA, 12VDC

PACKAGE

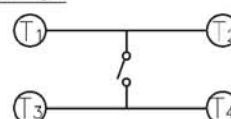
Tube: 75 pcs/tube
DTSGMW-66: 2000 pcs/reel
DTSMW-66, 68: 2000 pcs/reel
DTSMW-69, 65: 1900 pcs/reel
DTSMW-67, 64: 900 pcs/reel

CIRCUIT

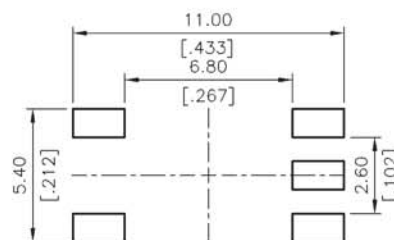
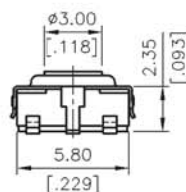
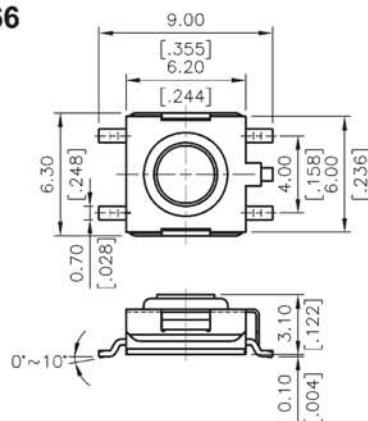
DTSGMW-66



DTSMW-6*

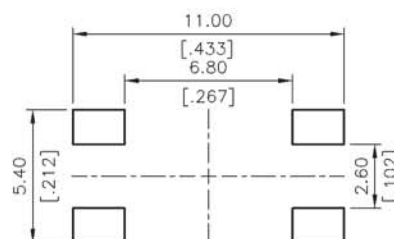
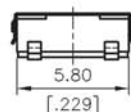
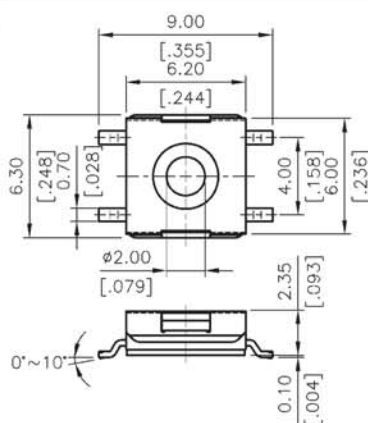


DTSGMW-66



P.C.B. LAYOUT

DTSMW-68



P.C.B. LAYOUT

General Tolerance: ±0.2mm(±0.008")

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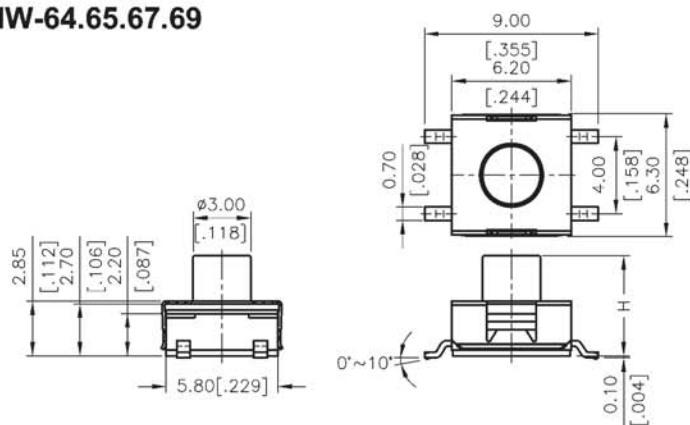
DTS(G)MW-6 SERIES

6x6 Gull-Wing SMT
Washable Type

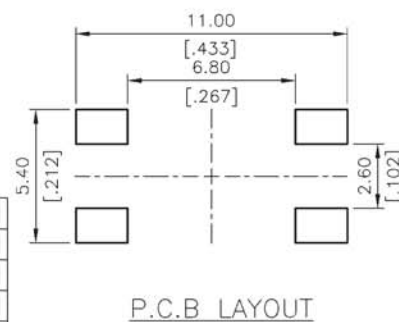


41

DTSMW-64.65.67.69



DTSMW-69	3.80[.150]
DTSMW-67	5.20[.205]
DTSMW-65	3.50[.138]
DTSMW-64	4.50[.177]
PART NO.	H



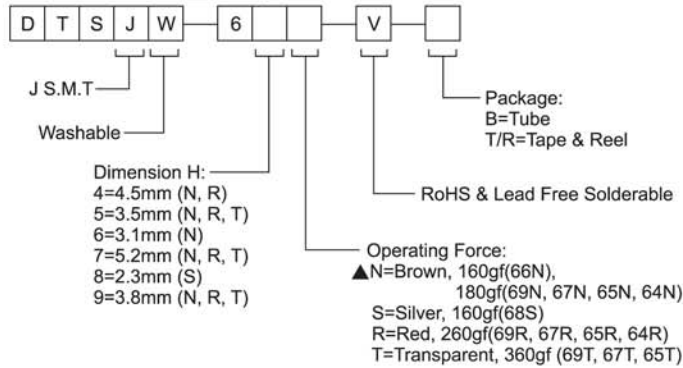
P.C.B. LAYOUT

TACT SWITCH

General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force:
360±90gf, Transparent (T) 69, 67, 65
260±70gf, Red (R) 69, 67, 65, 64
180±50gf, Brown (N) 69, 67, 65, 64
160±50gf, Brown (N) 66
160±50gf, Silver (S) 68
Stroke :
0.25±0.2/-0.1mm 66N, 68S
0.45±0.2mm, [67 · 69 N/R], [64 · 65N/R/T]
0.6 ± 0.2 mm, 69, 67T

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
Storage Temperature Range : -30°C to +80°C

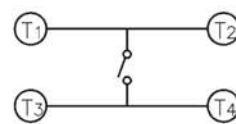
ELECTRICAL

Electrical Life :
500,000 cycles for 69, 67, 65, 64
100,000 cycles for 66, 68
Rating : 50mA, 12VDC

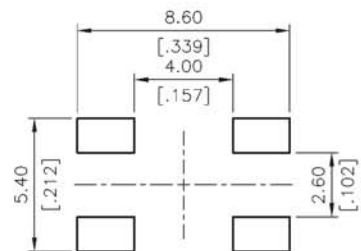
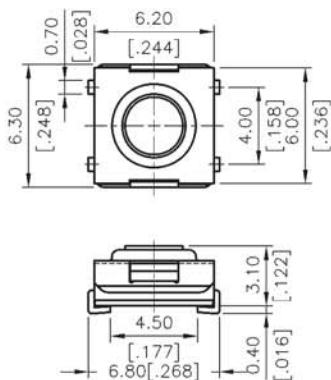
PACKAGE

Tube: 75 pcs/tube
DTSJW-64, 67: 900 pcs/reel
DTSJW-65, 69: 1800 pcs/reel
DTSJW-66: 1900 pcs/reel
DTSJW-68: 2700 pcs/reel

CIRCUIT

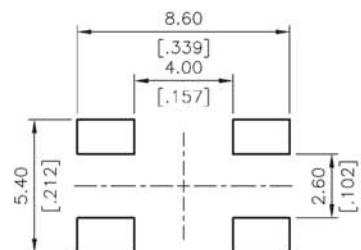
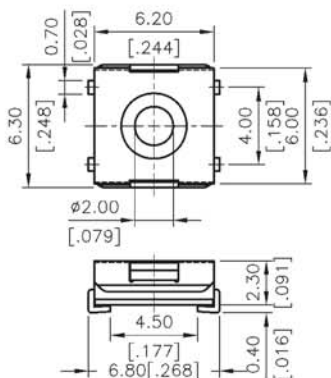


DTSJW-66



P.C.B. LAYOUT

DTSJW-68

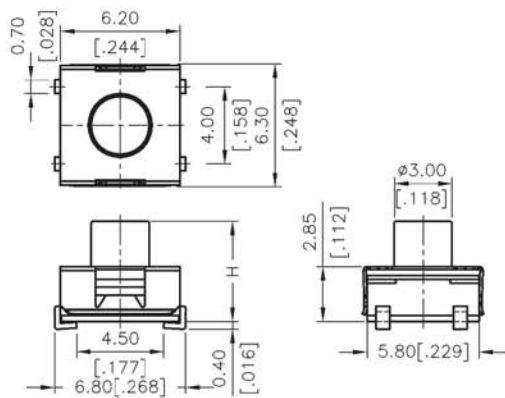


P.C.B. LAYOUT

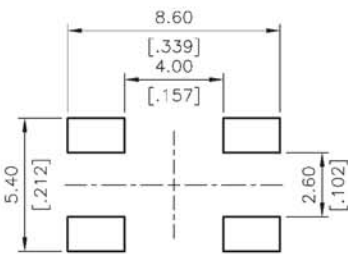
General Tolerance: ±0.2mm(±0.008")

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DTSJW-64.65.67.69



DTSJW-69	3.80[.150]
DTSJW-67	5.20[.205]
DTSJW-65	3.50[.138]
DTSJW-64	4.50[.177]
PART NO.	H



P.C.B. LAYOUT

TA4 & TH4 SERIES

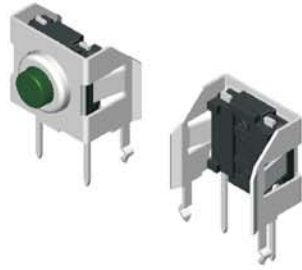
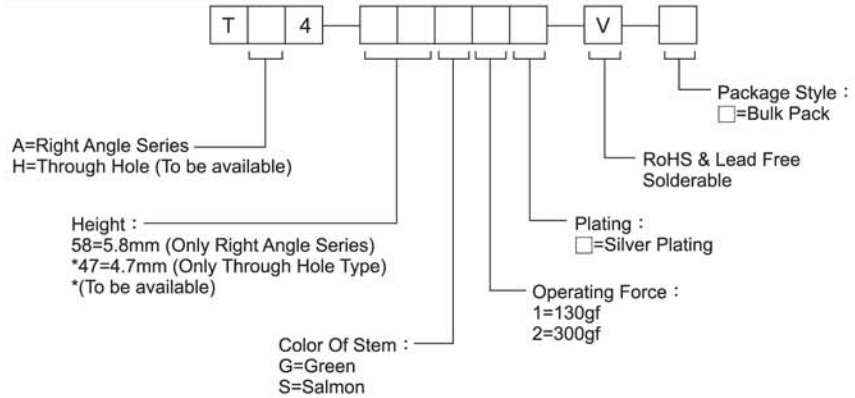
7x7 Right Angle Sealed Type



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TACT SWITCH

HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 1,000,000 cycles
Operation Force : 130±50gf, 300±500gf
Stroke : 0.5±0.2mm

ENVIRONMENTAL

Operation Temperature Range : -40°C to +90°C
Storage Temperature Range : -40°C to +90°C

ELECTRICAL

Electrical Life: 1,000,000 cycles
Switching Rating: 50 mA, 50 VDC

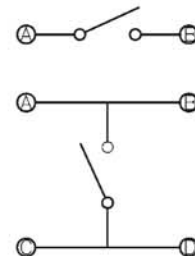
PACKAGE

500 pcs/bag

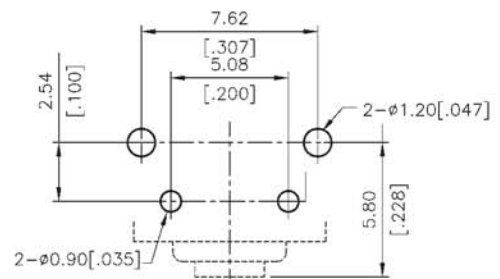
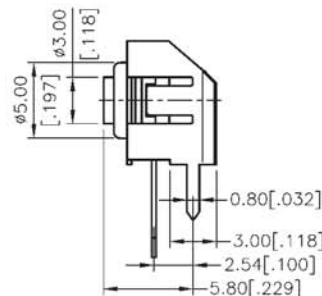
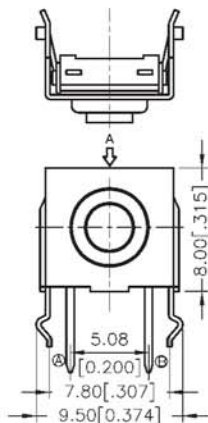
CIRCUIT

TA4

TH4

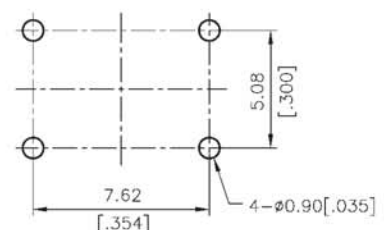
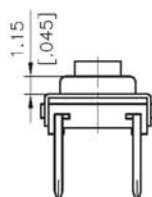
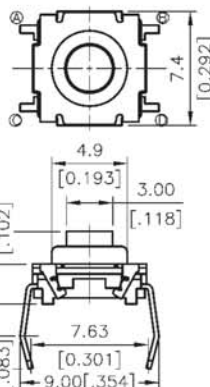


TA4



P.C.B. LAYOUT

TH4



P.C.B. LAYOUT

General Tolerance: ±0.2mm (±0.008")

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DTSYH-6 SERIES

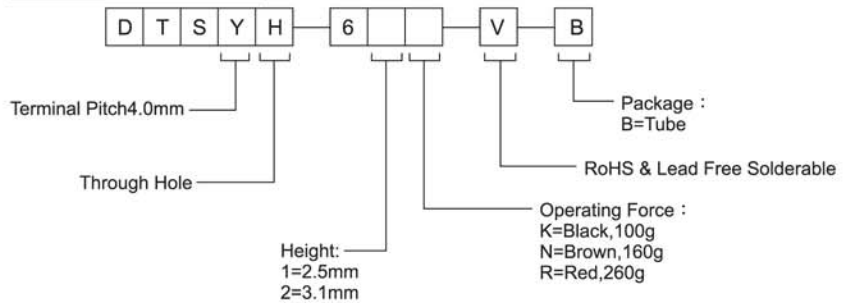
6X6 Through Hole Type (Pitch 4.0mm)



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TACT SWITCH

HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 260±50gf Red(R)
160±50gf Brown(N)
100±50gf Black(K)

Stroke: 0.25±0.2/-0.1mm

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C

Storage Temperature Range : -30°C to +80°C

ELECTRICAL

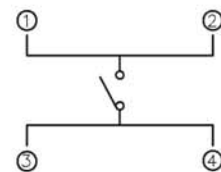
Electrical Life: 100,000 cycles for 260gf
200,000 cycles for 100gf, 160gf

Rating : 50mA, 12VDC

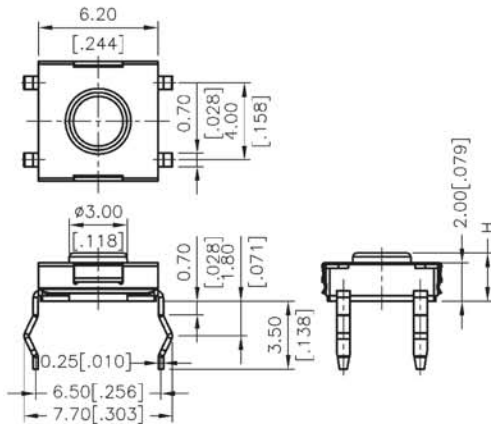
PACKAGE

Tube: 75 pcs/tube

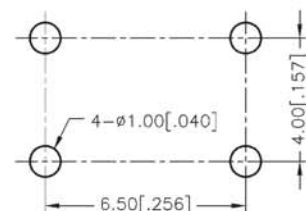
CIRCUIT



DTSYH-6



DTSYH-62	3.10 [0.122]
DTSYH-61	2.50 [0.098]
PART NO.	H



P.C.B. LAYOUT

General Tolerance: ±0.2mm (±0.008")

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DTS(G)ZM(P)-6 SERIES

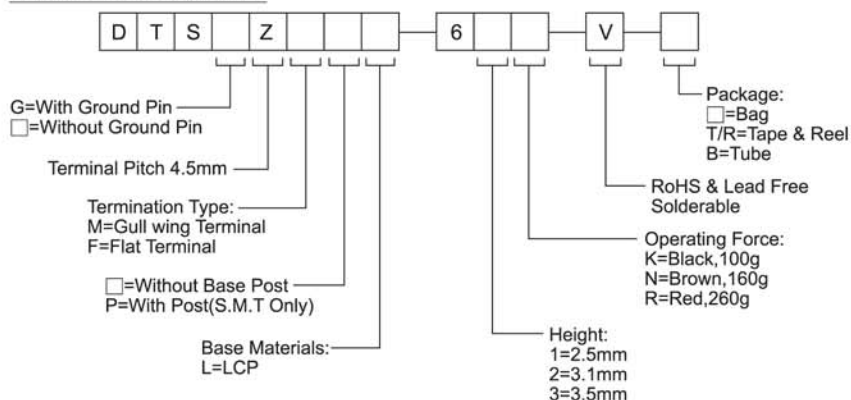
6x6 Thinner Type With Ground Terminal (Pitch 4.5mm)



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TACT SWITCH

HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 260±50gf Red(R)
160±50gf Brown(N)
100±50gf Black(K)

Stroke: 0.25+0.2/-0.1mm

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
Storage Temperature Range : -30°C to +80°C

ELECTRICAL

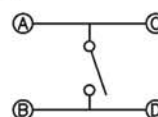
Electrical Life: 100,000 cycles for 260gf
200,000 cycles for 100gf, 160gf
Rating : 50mA, 12VDC

PACKAGE

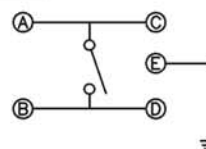
Tube: 75 pcs/tube
DTS(G)ZM-61□-T/R: 2500 pcs/reel
DTS(G)ZM-62□-T/R: 2500 pcs/reel
DTSGZMP-62: 1400 pcs/reel

CIRCUIT

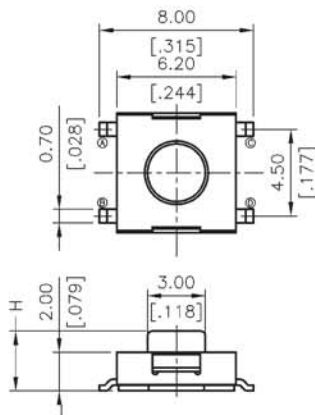
DTSZML-6



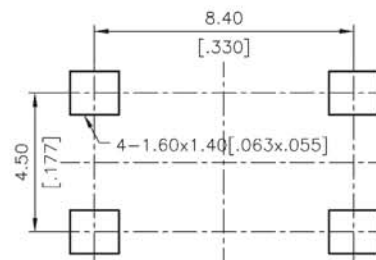
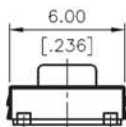
DTSGZMLP-6



DTSZML-6

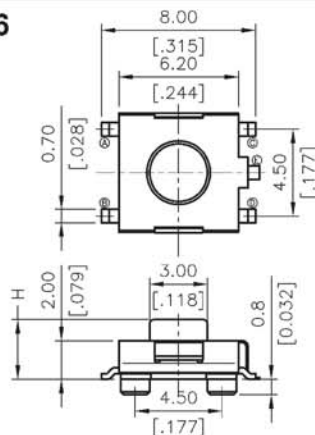


DTSZML-62	3.10[.122]
DTSZML-61	2.50[.098]
PART NO.	H

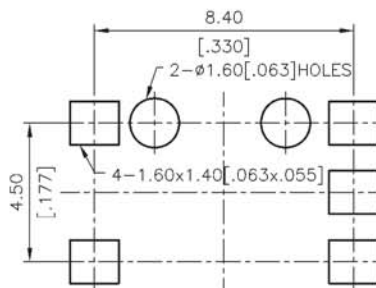
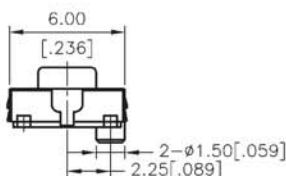


P.C.B. LAYOUT

DTSGZMLP-6



DTSGZMLP-62	3.10[.122]
DTSGZMLP-61	2.50[.098]
PART NO.	H



P.C.B. LAYOUT

General Tolerance: ±0.2mm(±0.008")

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DTS(G)L-6 & DTS(G)F-6 SERIES

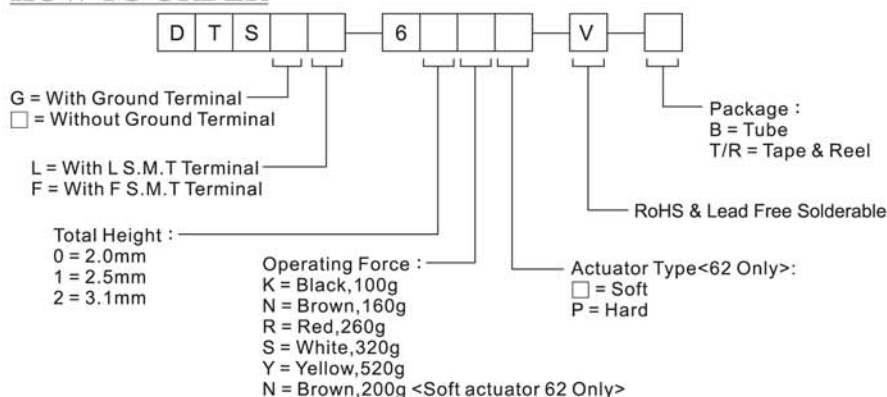
6x6 Thinner Type With Ground Terminal (Pitch 4.0mm)



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TACT SWITCH

HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force:
 520±130gf Yellow(Y)
 320±80gf White(S)
 260±50gf Red(R)
 180±50gf Brown(N), 62 Only
 160±50gf Brown(N)
 100±50gf Black(K)
 Stroke: 0.25±0.2/-0.1mm

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
 Storage Temperature Range : -30°C to +80°C

ELECTRICAL

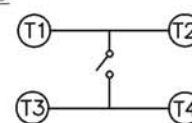
Electrical Life:
 300,000 cycles for 320gf, 520gf
 500,000 cycles for 260gf, 200gf
 1,000,000 cycles for 100gf, 160gf, 180gf
 Rating : 50mA, 12VDC

PACKAGE

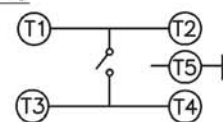
Tube: 75 pcs/tube
 DTS(G)L-60□-T/R: 2700 pcs/reel
 DTS(G)L-61□-T/R: 2700 pcs/reel
 DTS(G)L-62□-T/R: 2500 pcs/reel
 DTS(G)F-60□-T/R: 3000 pcs/reel
 DTS(G)F-62□-T/R: 2500 pcs/reel
 DTSGF-61□-T/R: 2500 pcs/reel
 DTSF-61□-T/R: 3000 pcs/reel

CIRCUIT

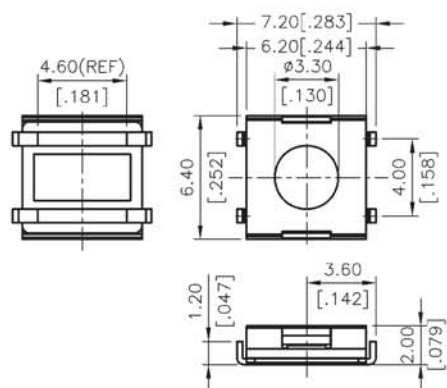
DTSL-6



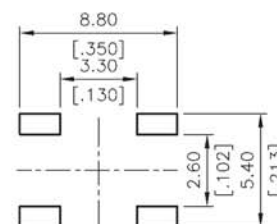
DTSGF-6



DTSL-6

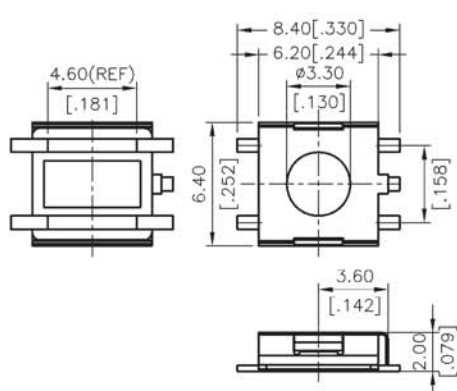


DTSL-62	3.10 [0.122]
DTSL-61	2.50 [0.098]
DTSL-60	2.00 [0.079]
PART NO.	H

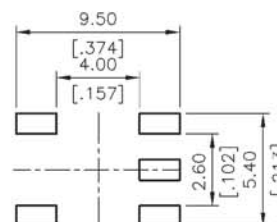


P.C.B. LAYOUT

DTSGF-6



DTSGF-62	3.10 [0.122]
DTSGF-61	2.50 [0.098]
DTSGF-60	2.00 [0.079]
PART NO.	H



P.C.B. LAYOUT

General Tolerance: ±0.2mm (±0.008")

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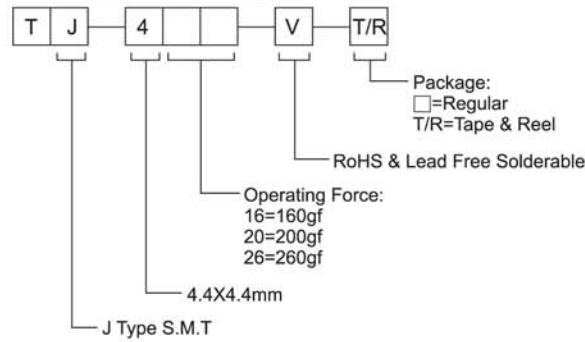
TJ-4 SERIES

4x4 Tactile Switch (H:0.55mm)

48

TACT SWITCH

HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life :
100,000 cycles for 200gf, 260gf
200,000 cycles for 160gf
Operation Force :
160±50gf, 200 ± 50gf, 260 ± 50gf
Stroke : 0.2±0.1mm

ENVIRONMENTAL

Operation Temperature Range : -20°C to +70°C
Storage Temperature Range : -30°C to +80°C

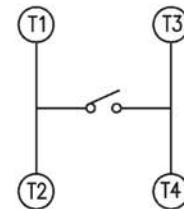
ELECTRICAL

Electrical Life : 200,000 cycles
Switching Rating : 50mA, 12VDC

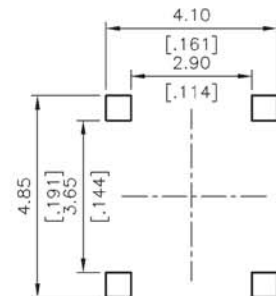
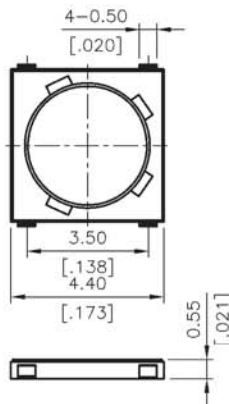
PACKAGE

Tape & Reel: 8000 pcs/reel

CIRCUIT



TJ-4



P.C.B. LAYOUT

TMG -5, TJG-5 SERIES

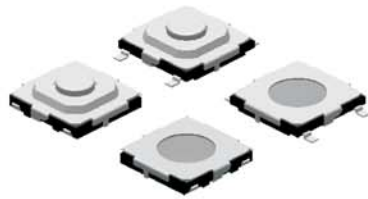
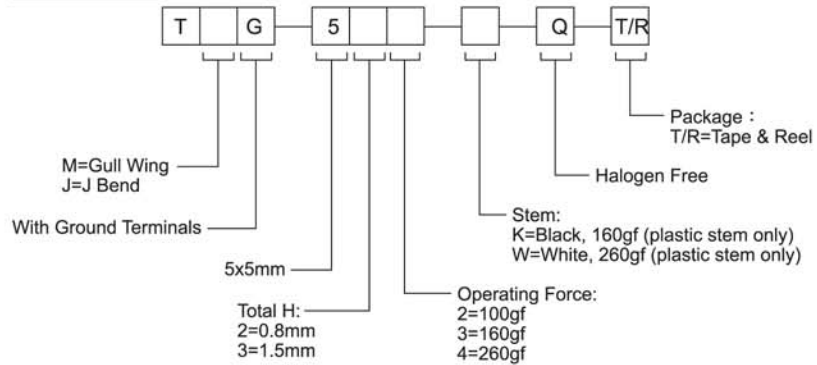
5x5 SMT & J SMT
(H: 0.8 & 1.5mm)



49

TACT SWITCH

HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 260 $\pm$ 50gf
160 $\pm$ 50gf
100 $\pm$ 50gf

Stroke: 0.25+0.1 mm/- 0.2 mm

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C

Storage Temperature Range : -30°C to +80°C

ELECTRICAL

Electrical Life:

1000,000 cycles min. for 100gf and 160gf

200,000 cycles min. for 260gf

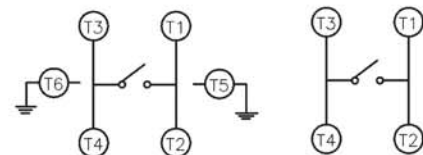
Rating : 50mA, 12VDC

PACKAGE

Tape and Reel: 4000 pcs/reel

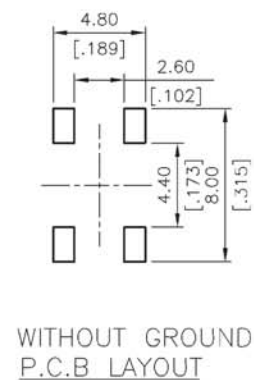
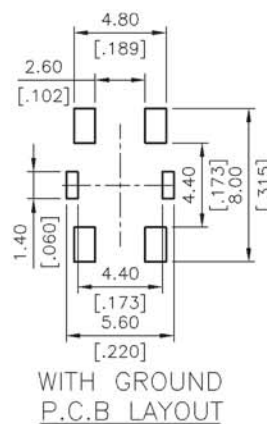
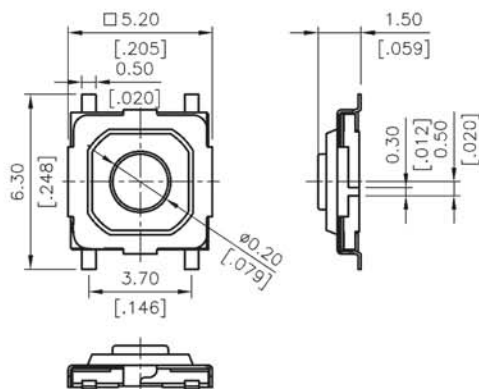
CIRCUIT

WITHOUT GROUND
CIRCUIT DIAGRAM

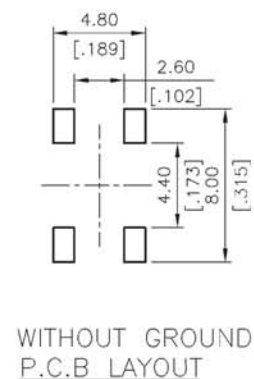
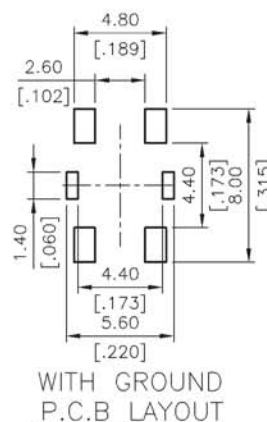
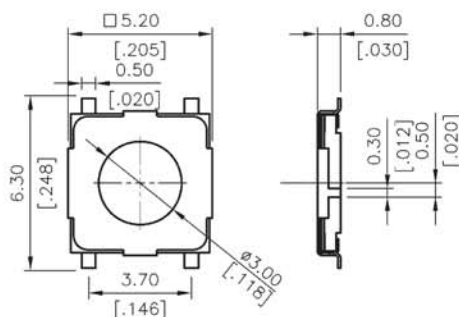


WITH GROUND
CIRCUIT DIAGRAM

TMG-53



TMG-52



General Tolerance: ± 0.2 mm (± 0.008 ")

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TMG -5, TJG-5 SERIES

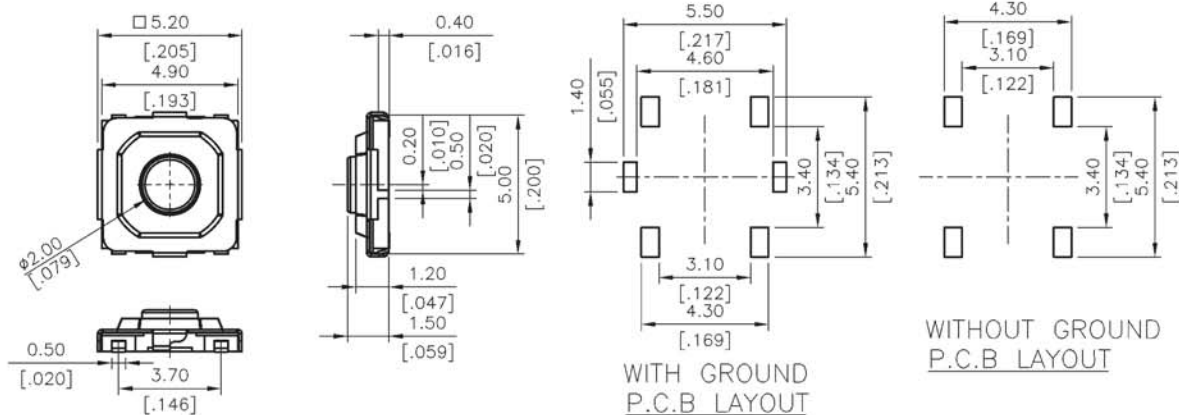
5x5 SMT & J SMT
(H: 0.8 & 1.5mm)



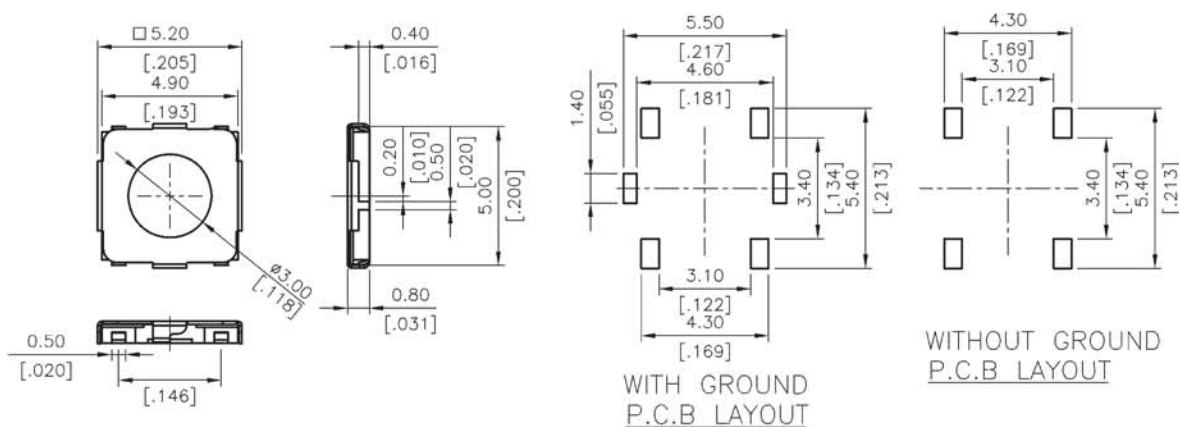
50

TACT SWITCH

TJG-53



TJG-52



General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

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TAC-3, TA(N)2-3 SERIES

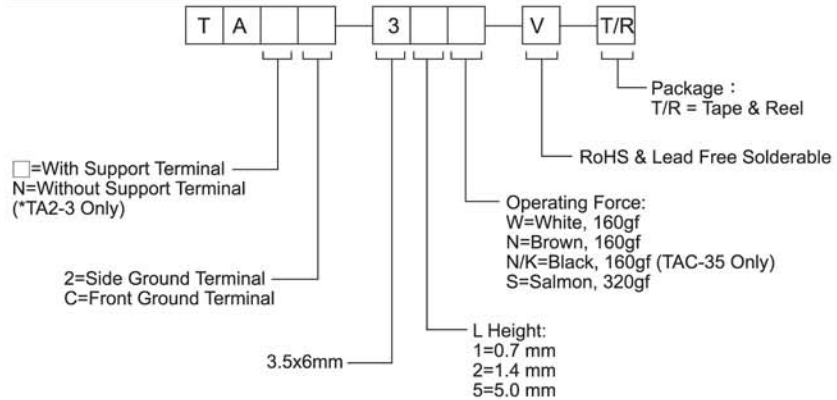
4x7 SMT & Right Angle



51

TACT SWITCH

HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 320 ± 50gf Salmon (S)
160 ± 50gf White (W)
Stroke : 0.25±0.1/-0.2mm

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
Storage Temperature Range : -30°C to +80°C

ELECTRICAL

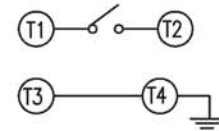
Electrical Life : 50,000 cycles
Rating : 50mA, 12VDC

PACKAGE

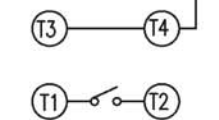
Tape and Reel: 900 pcs/reel

CIRCUIT

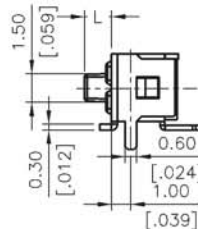
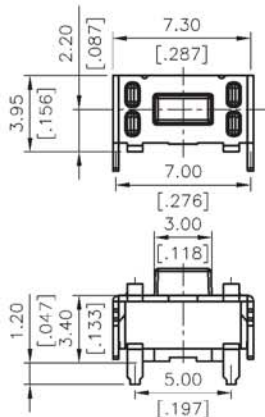
TAC-3



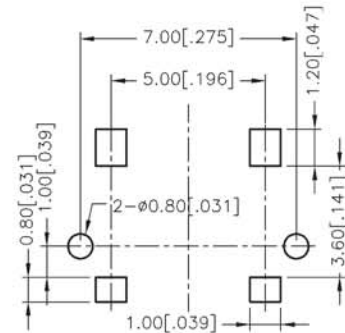
TA(N)2-3



TAC-3

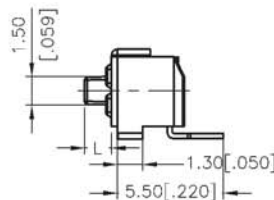
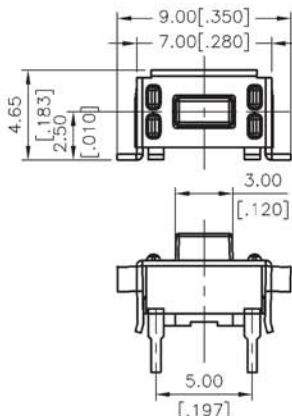


TAC-35	5.00[.196]
TAC-32	1.40[.055]
TAC-31	0.70[.027]
PART NO.	H

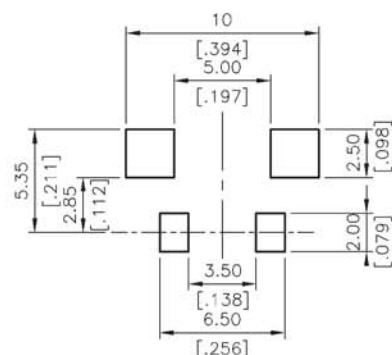


P.C.B LAYOUT

TAN2-3



TAN2-32	1.40[.055]
TAN2-31	0.70[.027]
PART NO.	H

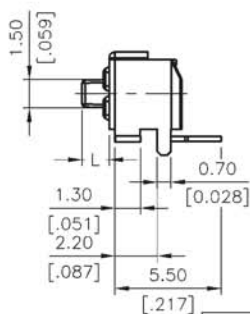
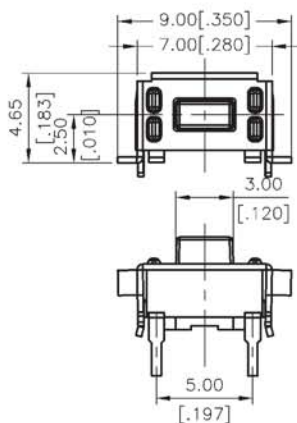


P.C.B LAYOUT

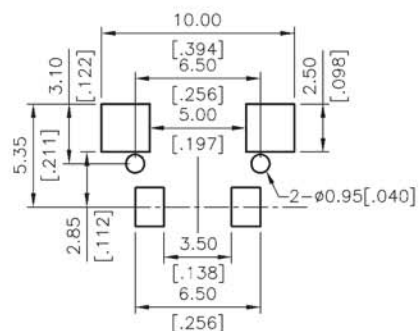
General Tolerance: ±0.2mm(±0.008")

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TA2-3

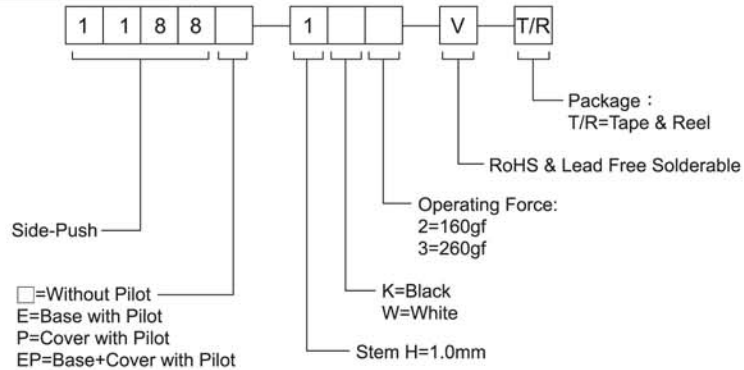


TA2-32	1.40 [.055]
TA2-31	0.70 [.027]
PART NO.	H



P.C.B. LAYOUT

HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 260 ± 50gf
160 ± 50gf

Stroke: 0.25 ± 0.1 mm

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C

Storage Temperature Range : -40°C to +80°C

ELECTRICAL

Electrical Life : 50,000 cycles for 160gf.

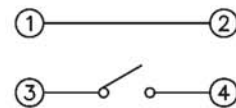
30,000 cycles for 260gf.

Rating : 50mA, 12VDC

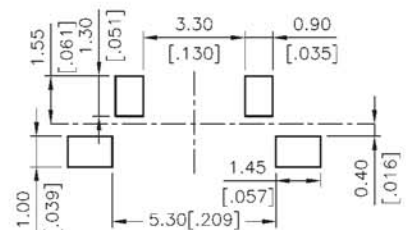
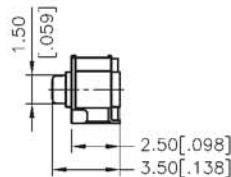
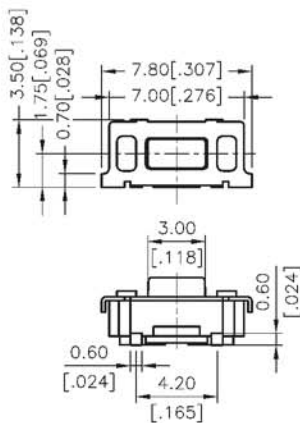
PACKAGE

Tape and Reel: 2000 pcs/reel

CIRCUIT

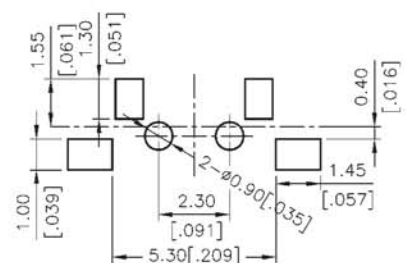
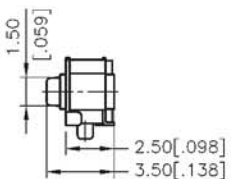
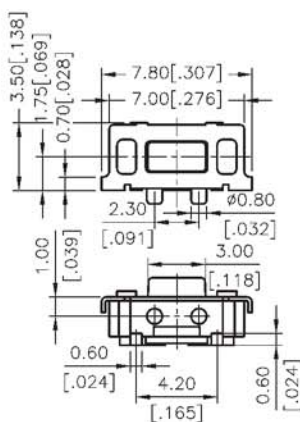


1188



P.C.B. LAYOUT

1188E

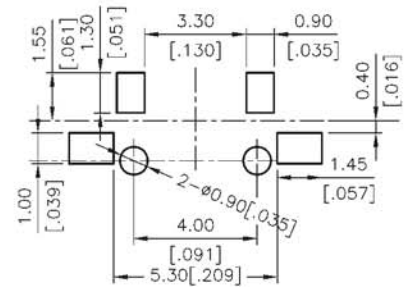
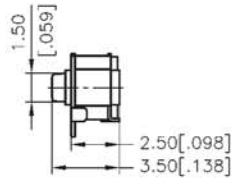
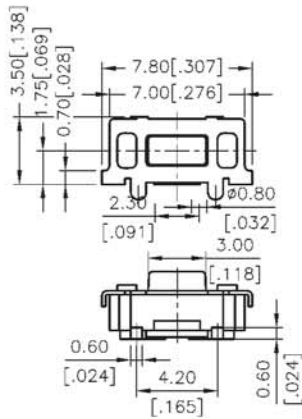


P.C.B. LAYOUT

General Tolerance: ±0.2mm(±0.008")

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1188P



P.C.B. LAYOUT

DTS-3,DTSM(L)-3 SERIES

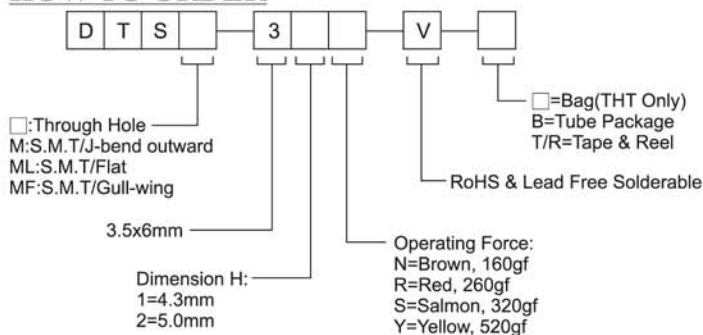
3.5x6 Through Hole & SMT Type Tactile Switch



55

TACT SWITCH

HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 520±130gf Yellow(Y)
320±80gf Salmon(S)
260±50gf Red(R)
160±50gf Brown(N)

Stroke: 0.25±0.2/-0.1mm

ENVIRONMENTAL

Operation Temperature Range: -25°C to +70°C

Storage Temperature Range: -30°C to +80°C

ELECTRICAL

Electrical Life: 50,000 cycles for 160gf, 320gf
30,000 cycles for 260gf, 520gf

Rating: 50mA, 12VDC

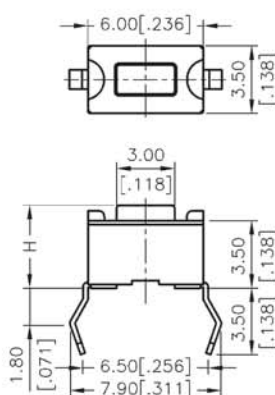
PACKAGE

Tube: 135 pcs/tube
DTSM(L)-31: 1800 pcs/reel
DTSM(L)-32: 1600 pcs/reel
Bulk: 1000 pcs/bag

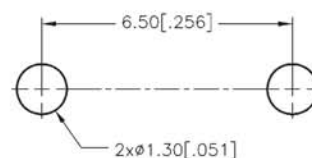
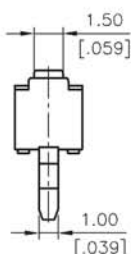
CIRCUIT



DTS-3

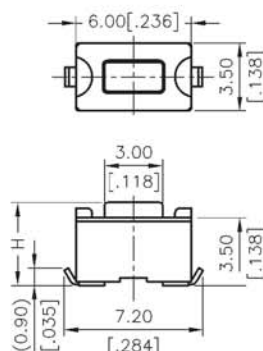


DTS-32	5.00 [.197]
DTS-31	4.30 [.169]
PART NO.	H

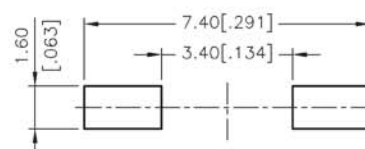
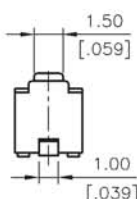


P.C.B. LAYOUT

DTSM-3



DTSM-32	5.00 [.197]
DTSM-31	4.30 [.169]
PART NO.	H

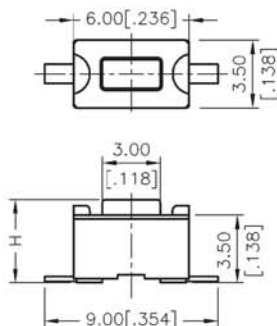


P.C.B. LAYOUT

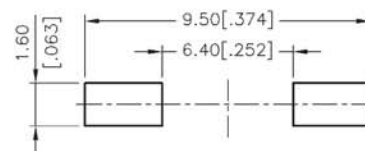
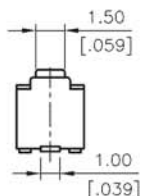
General Tolerance: ±0.2mm (±0.008")

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DTSML-3

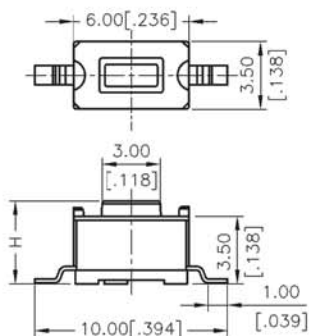


DTSML-32	5.00[.197]
DTSML-31	4.30[.169]
PART NO.	H

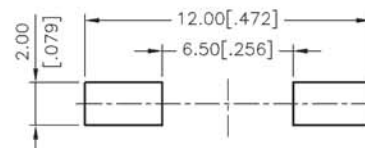
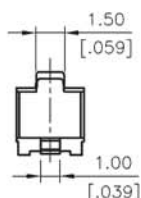


P.C.B. LAYOUT

DTSMF-3

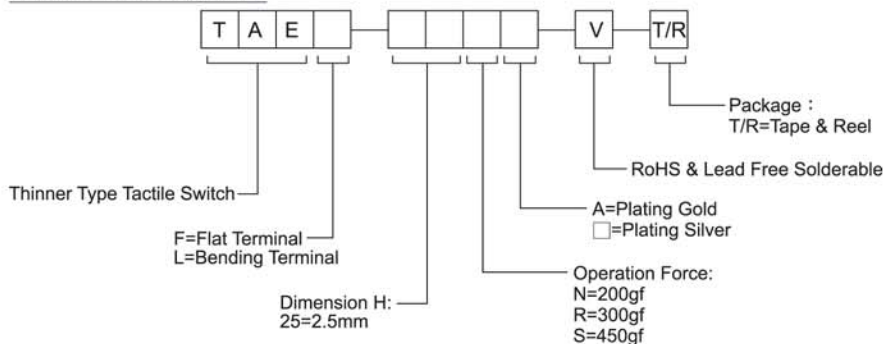


DTSMF-32	5.00[.197]
DTSMF-31	4.30[.169]
PART NO.	H



P.C.B. LAYOUT

HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 200,000 cycles (N, R)
100,000 cycles (S)
Operation Force: 200gf (N)
300gf (R)
450gf (S)
Stroke: 0.30±0.15mm (N)
0.35±0.15mm (R)
0.45±0.15mm (S)

ENVIRONMENTAL

Operation Temperature Range : -40°C to +85°C
Storage Temperature Range : -40°C to +85°C

ELECTRICAL

Electrical Life: 200,000 cycles (N, R)
100,000 cycles (S)

Rating: 25mA, 24VDC

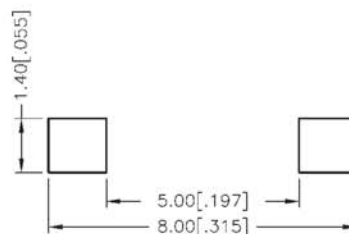
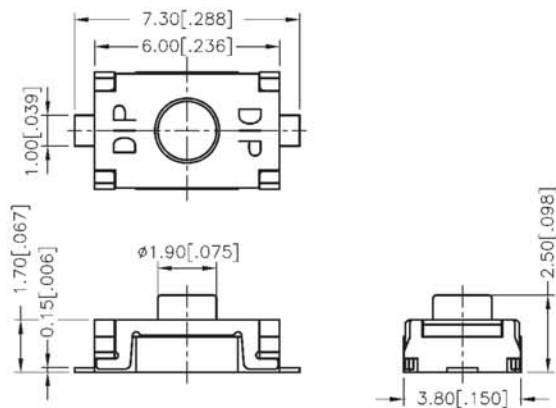
PACKAGE

Tape & Reel: 2700 pcs/reel

CIRCUIT

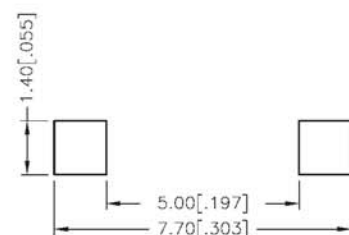
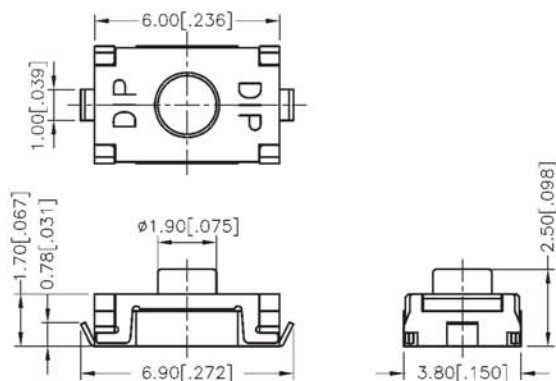


TAEF-25



P.C.B. LAYOUT

TAEF-25

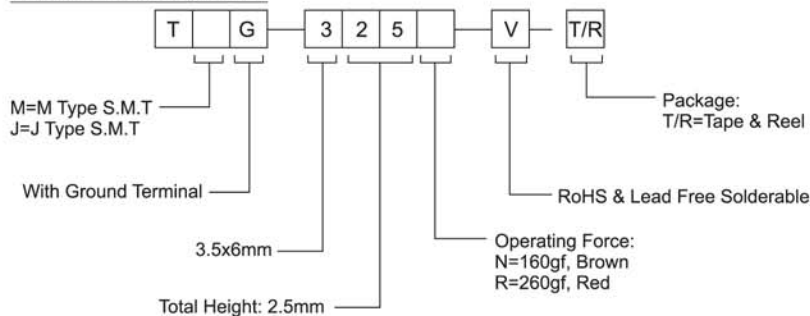


P.C.B. LAYOUT

General Tolerance: ±0.2mm(±0.008")

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 260 $\pm$ 50gf Red(R)
160 $\pm$ 50gf Brown(N)
Stroke : 0.25+0.2/-0.1mm

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
Storage Temperature Range : -30°C to +80°C

ELECTRICAL

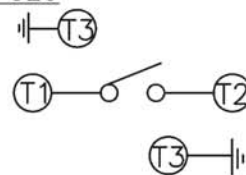
Electrical Life : 50,000 cycles for 160gf
20,000 cycles for 260gf
Rating : 50mA, 12VDC

PACKAGE

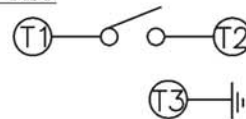
Tape and Reel: 2800 pcs/reel

CIRCUIT

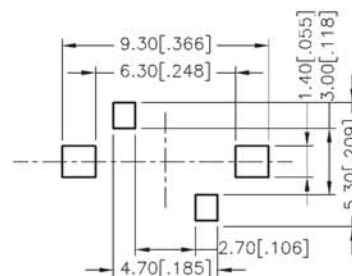
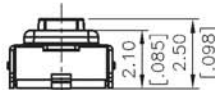
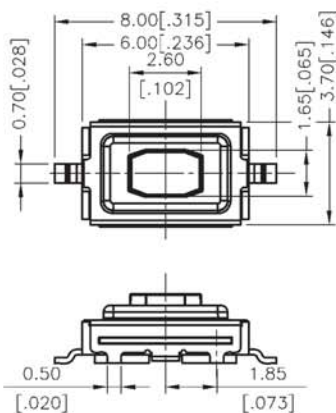
TMG-325



TJG-325

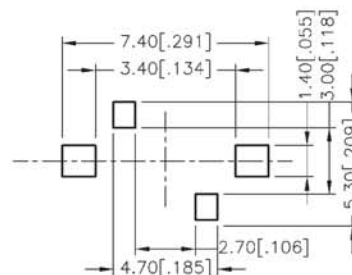
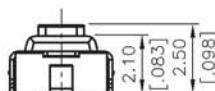
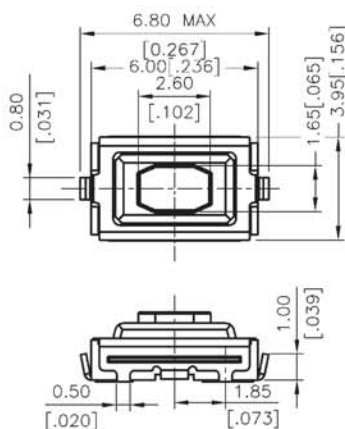


TMG-325



P.C.B. LAYOUT

TJG-325



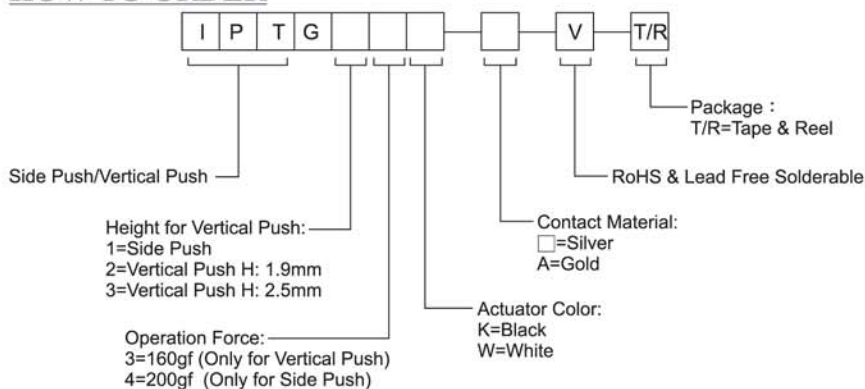
P.C.B. LAYOUT

General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 100,000 cycles min
Operation Force: 200 $\pm$ 65gf (Side Push)
160 $\pm$ 50gf (Vertical Push)
Stroke: 0.25+0.2mm/ - 0.1mm

ENVIRONMENTAL

Operation Temperature Range : -30°C to +80°C
Storage Temperature Range : -40°C to +85°C

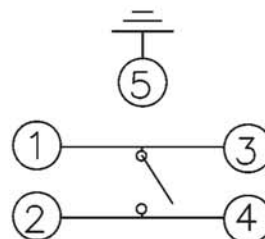
ELECTRICAL

Electrical Life: 50,000 cycles min
Rating : 50mA, 12VDC

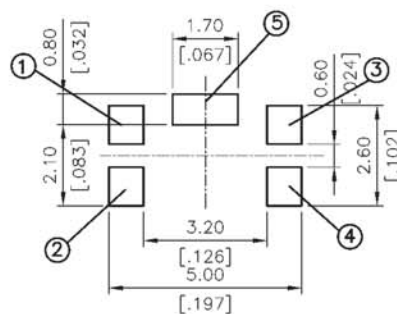
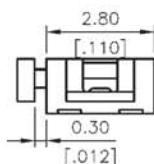
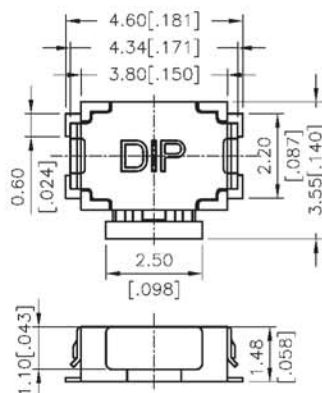
PACKAGE

IPTG14K: 3500 pcs/reel
IPTG23K: 7000 pcs/reel
IPTG33K: 6300 pcs/reel

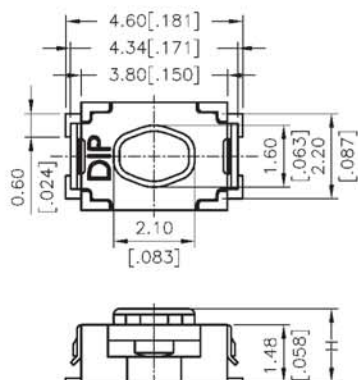
CIRCUIT



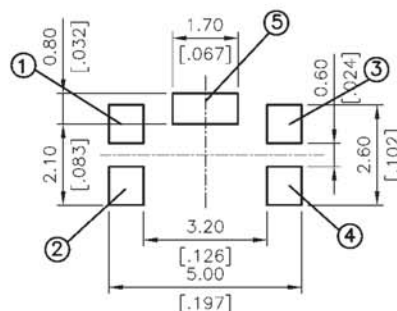
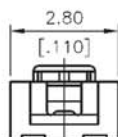
IPTG1



P.B.C. LAYOUT

IPTG ☐

IPTG3	2.50[.098]
IPTG2	1.90[.075]
PART NO.	H

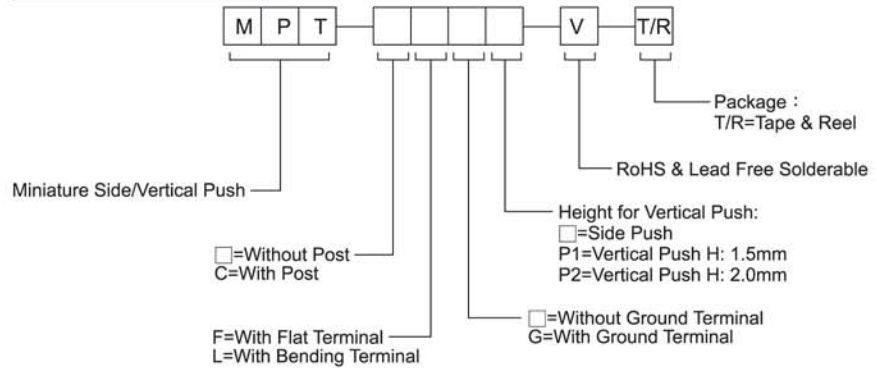


P.B.C. LAYOUT

General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 220±65gf Side push
160±50gf Vertical push
Stroke: 0.2+0.1mm/ - 0.05mm Side push
0.13+0.1mm/ - 0.05mm Vertical push

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
Storage Temperature Range : -30°C to +80°C

ELECTRICAL

Electrical Life: 100,000 cycles.
Rating : 50mA, 12VDC

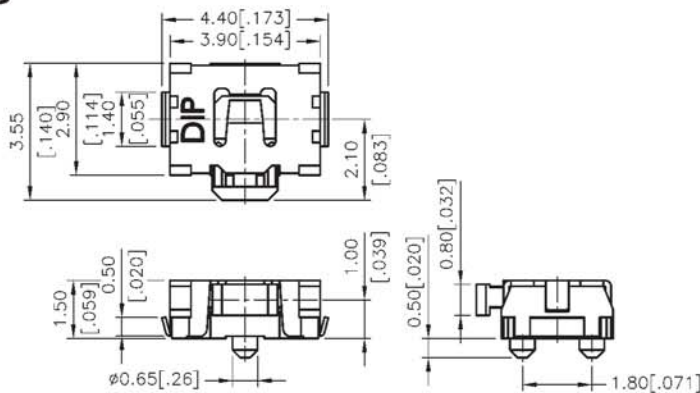
PACKAGE

Side push type: 3500 pcs/reel
Vertical push type: 2000 pcs/reel

CIRCUIT

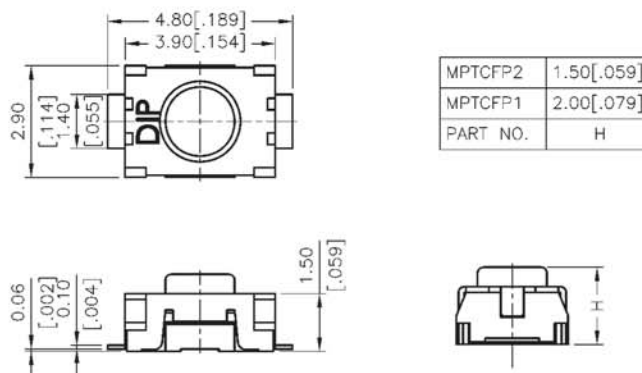


MPTCLG



P.C.B LAYOUT

MPTCFP



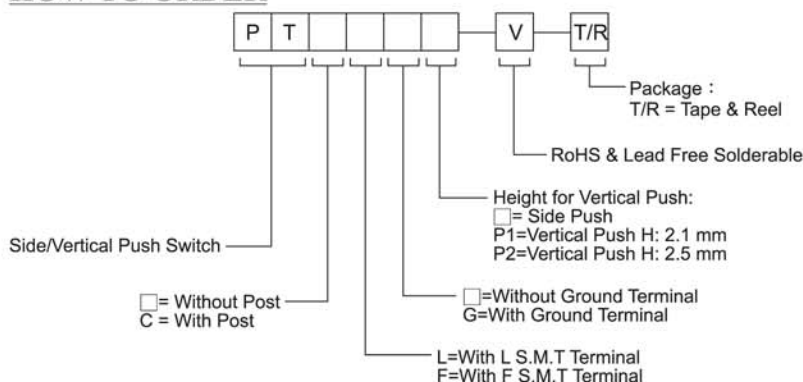
MPTCFP2	1.50[.059]
MPTCFP1	2.00[.079]
PART NO.	H

P.C.B LAYOUT

General Tolerance: ±0.2mm(±0.008")

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 220+80/- 70gf Side push
160+50gf Vertical push
Stroke: 0.30+ 0.1mm/- 0.15mm Side push
0.20+0.1mm Vertical push

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
Storage Temperature Range : -30°C to +80°C

ELECTRICAL

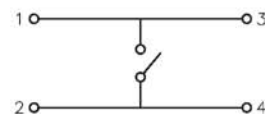
Electrical Life: 100,000 cycles min.
Rating : 50mA, 12VDC

PACKAGE

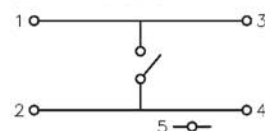
Side push type: 3000 pcs/reel
Vertical push type: 2400 pcs/reel

CIRCUIT

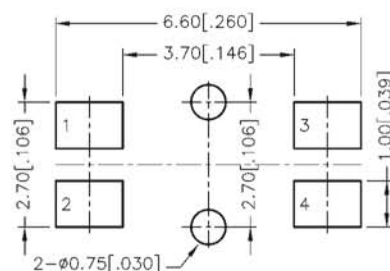
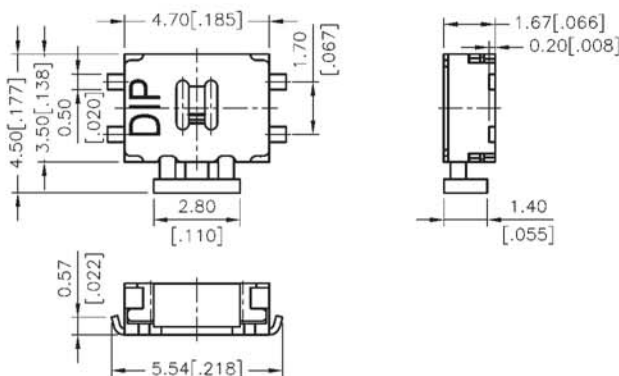
PT(L)(F)



PT(L)(F)G, PTC(L)(F)GP

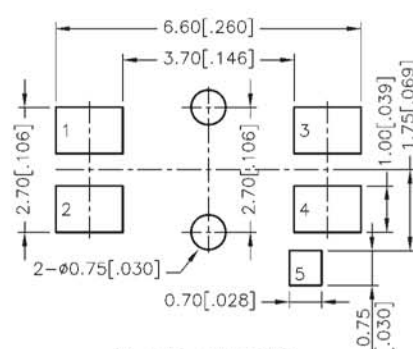
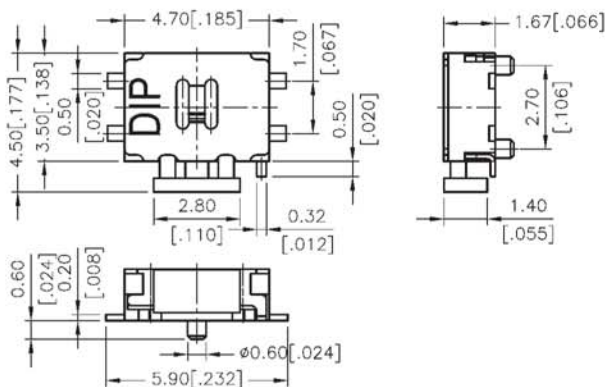


PTCL



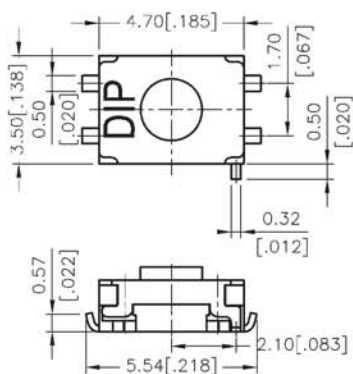
P.C.B LAYOUT

PTCFG

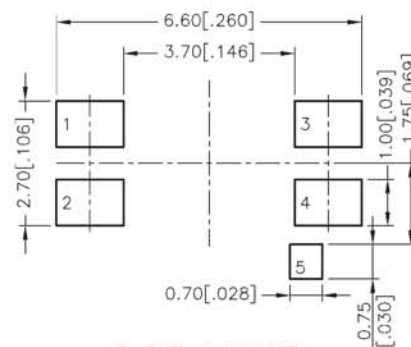


P.C.B LAYOUT

PTLGP

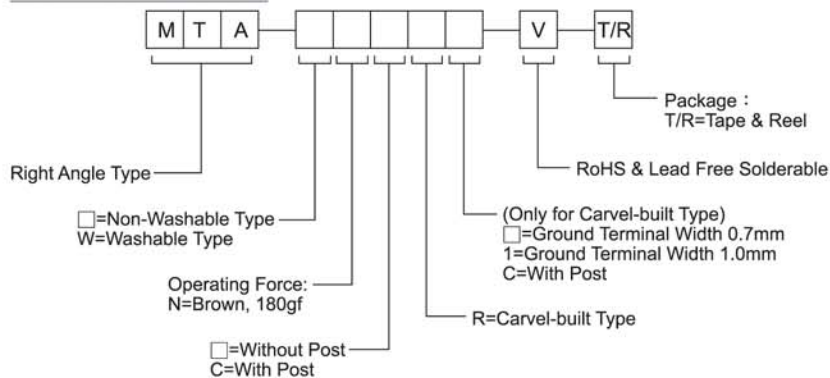


PTLGP2	2.50 [.098]
PTLGP1	2.10 [.083]
PART NO.	H



P.C.B. LAYOUT

HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 50,000 cycles
Operation Force : 180±50gf
Stroke : 0.2±0.1mm

ENVIRONMENTAL

Operation Temperature Range : -30°C to +80°C
Storage Temperature Range : -40°C to +90°C

ELECTRICAL

Electrical Life: 50,000 cycles
Switching Rating: 50 mA, 12 VDC

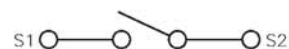
PACKAGE

3000 pcs/reel

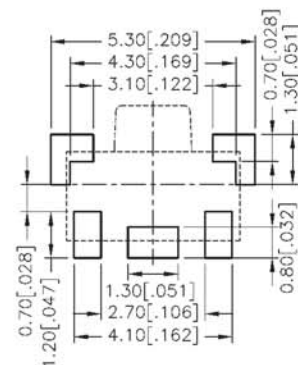
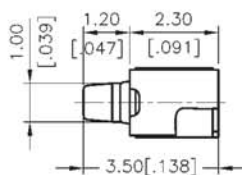
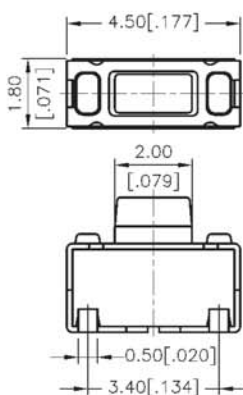
PACKAGE

3000 pcs/reel

CIRCUIT

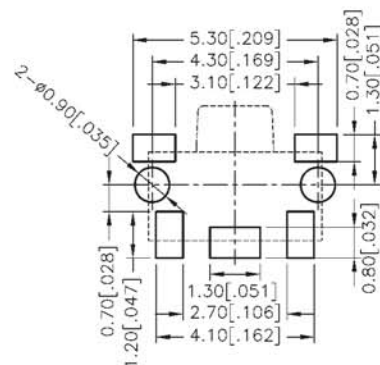
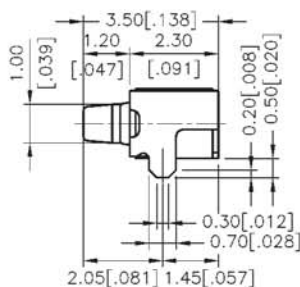
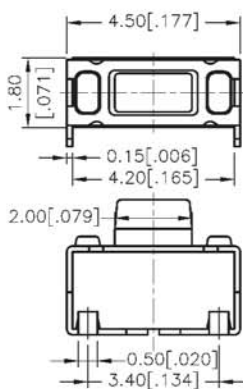


MTA-N



P.C.B LAYOUT

MTA-NC

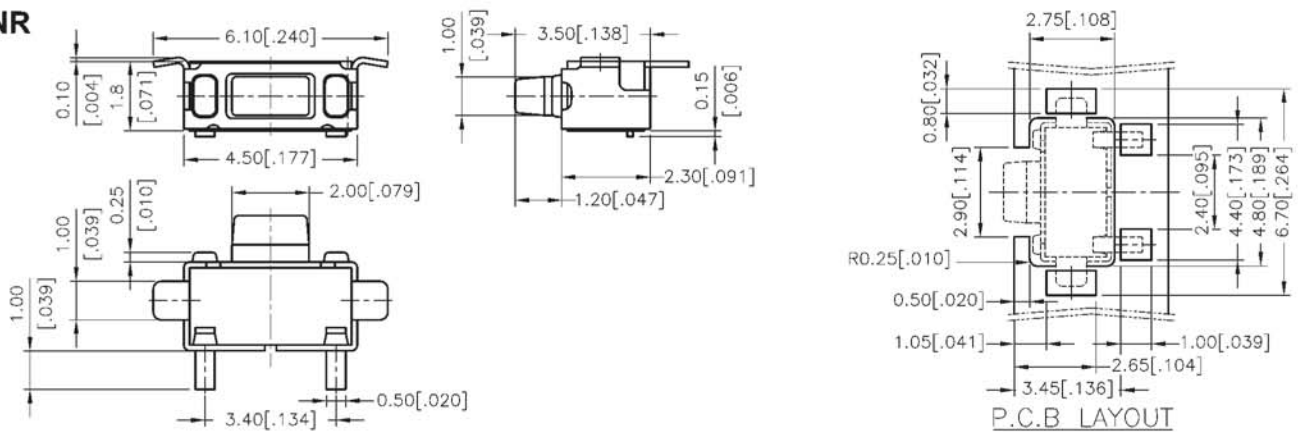


P.C.B LAYOUT

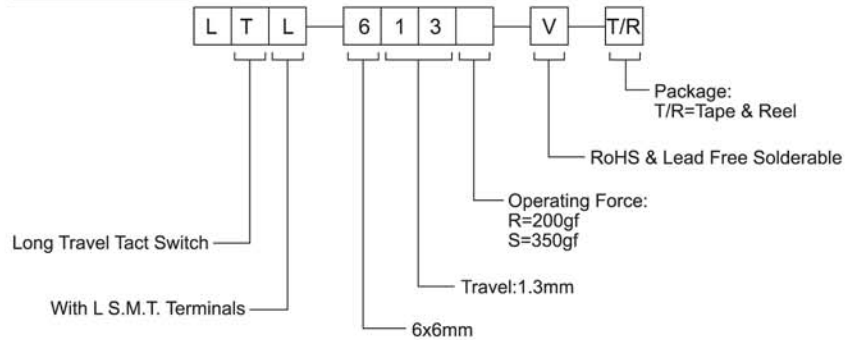
General Tolerance: ±0.2mm(±0.008")

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MTA-NR



HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 100,000 cycles (200gf)
30,000 cycles (350gf)

Operation Force: 200 ± 50 gf
 350 ± 100 gf

Stroke: 1.30 ± 0.1 / - 0.3 mm

ENVIRONMENTAL

Operation Temperature Range : -40°C to +85°C

Storage Temperature Range : -40°C to +85°C

ELECTRICAL

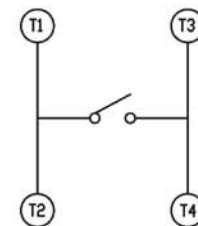
Electrical Life: 30,000 cycles

Rating : 50mA, 12VDC

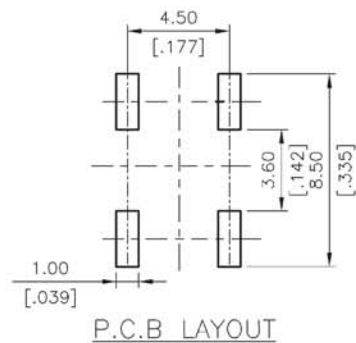
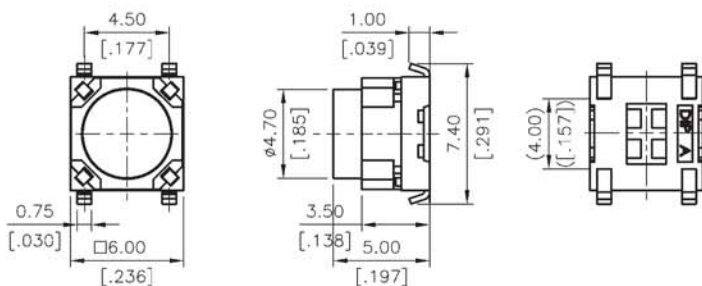
PACKAGE

Tape and Reel: 900 pcs/reel

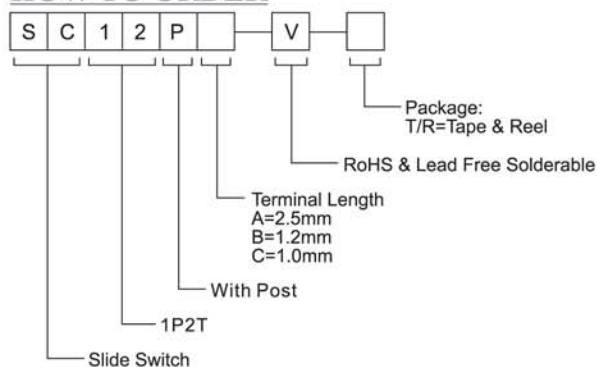
CIRCUIT



LTL



HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 10,000 cycles
Operation Force: 100~300gf
Stroke: 2.5±0.3mm

ENVIRONMENTAL

Operation Temperature Range : -10°C to +60°C
Storage Temperature Range : -20°C to +75°C

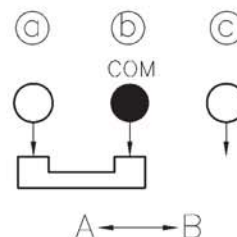
ELECTRICAL

Electrical Life: 10,000 cycles
Rating: 0.3A, DC10V

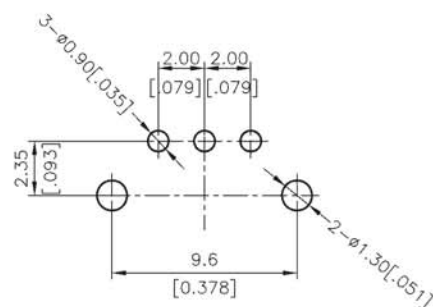
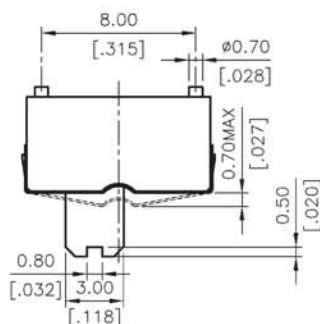
PACKAGE

Tape & Reel: 650 pcs/reel

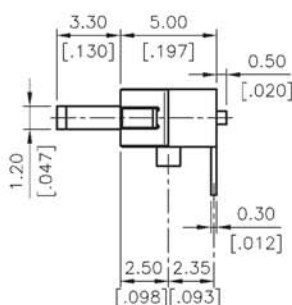
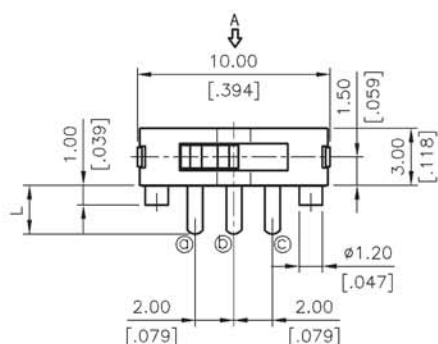
CIRCUIT



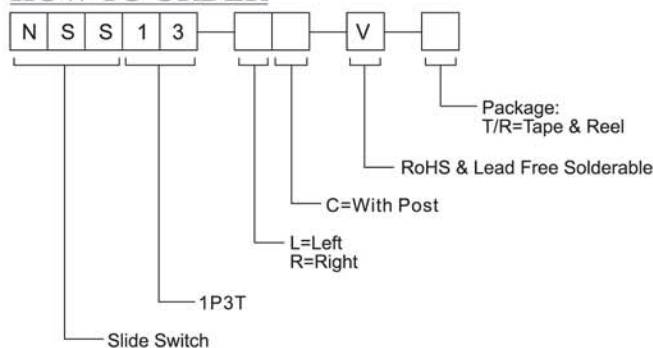
SC12P



P.C.B. LAYOUT



HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 10,000 cycles
Operation Force: ON-OFF 500+100/200gf
OFF-ON 320+150gf
ON-TEST 320+150gf

Stroke: ON-OFF 4mm
OFF-ON 4mm
ON-TEST 2mm

ENVIRONMENTAL

Operation Temperature Range : -20°C to +70°C
Storage Temperature Range : -40°C to +85°C

ELECTRICAL

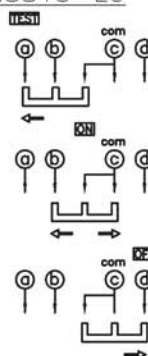
Electrical Life: 10,000 cycles
Rating: 0.3A, 4V DC

PACKAGE

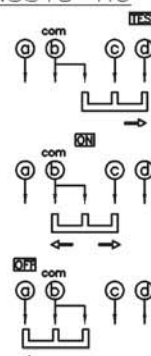
Tape & Reel: 800 pcs/reel

CIRCUIT

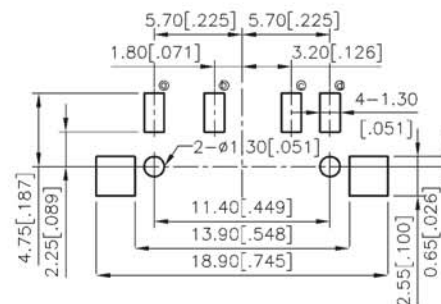
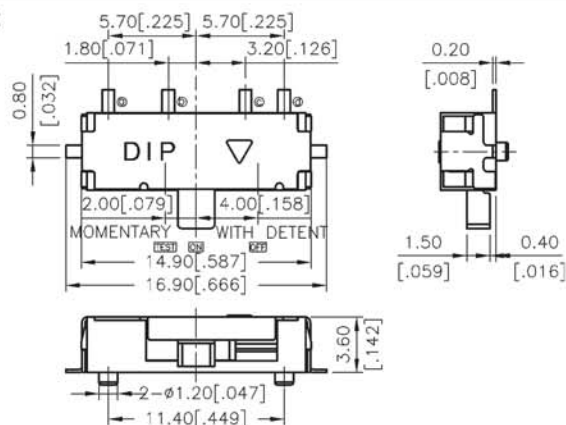
NSS13-LC



NSS13-RC

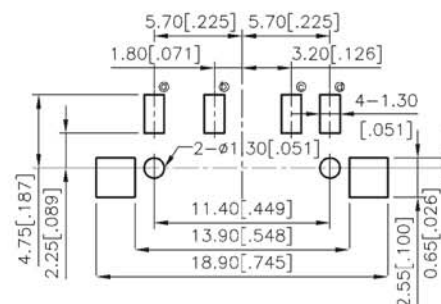
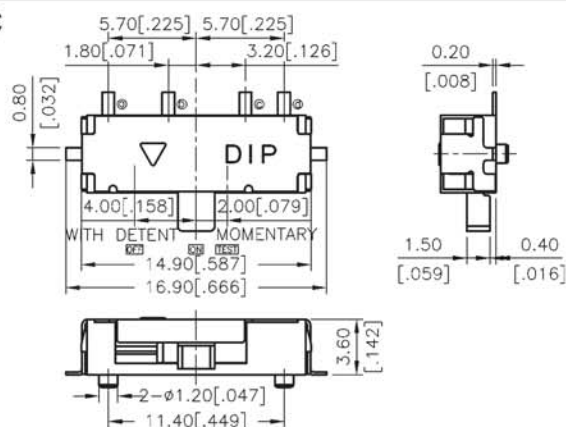


NSS13-LC



P.C.B. LAYOUT

NSS13-RC



P.C.B. LAYOUT

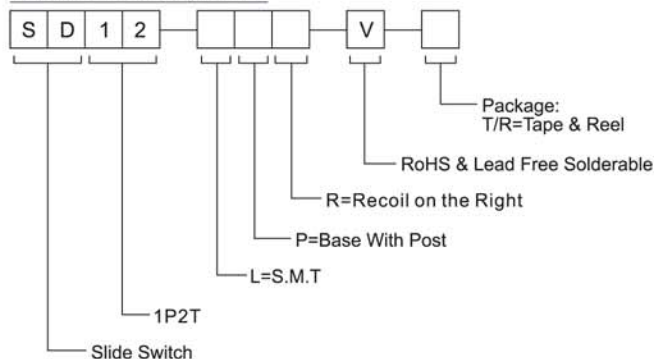
General Tolerance: ±0.2mm(±0.008")

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NEW



HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 5,000 cycles
Operation Force: 150±100gf
Stroke: 1.50mm

ENVIRONMENTAL

Operation Temperature Range : -10°C to +60°C
Storage Temperature Range : -25°C to +85°C

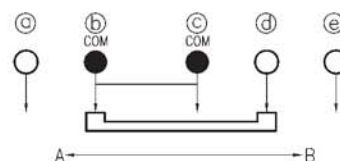
ELECTRICAL

Electrical Life: 5,000 cycles
Rating: 0.3A, 15V DC

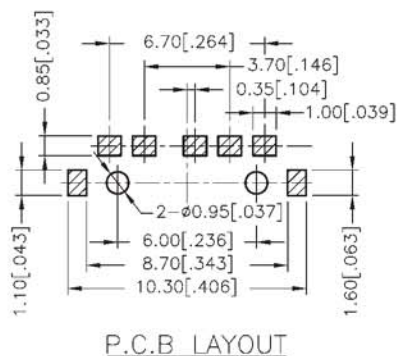
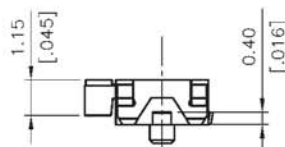
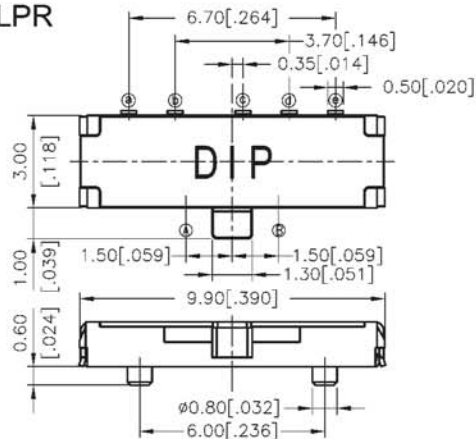
PACKAGE

Tape & Reel: 3,000 pcs/reel

CIRCUIT



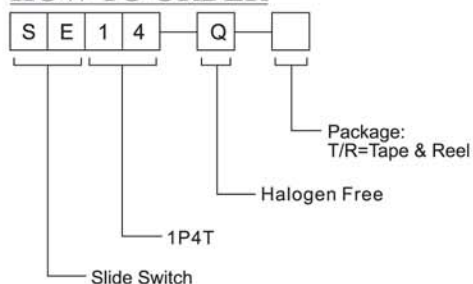
SD12-LPR





NEW

HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 10,000 cycles
Operation Force:

B→A	50~190gf (0.94~1.86N)
B→C	50~190gf (0.94~1.86N)
B→E	350~180gf (3.43N~1.76N)
E→B	50~250gf (0.94~2.54N)

Stroke:

B → A	1.5mm
B → C	1.5mm
B → E	3.0mm

ENVIRONMENTAL

Operation Temperature Range : -20° C to +80° C
Storage Temperature Range : -40° C to +85° C

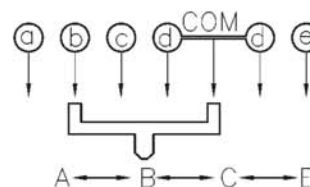
ELECTRICAL

Electrical Life: 10,000 cycles
Rating: 0.30A, 10V DC

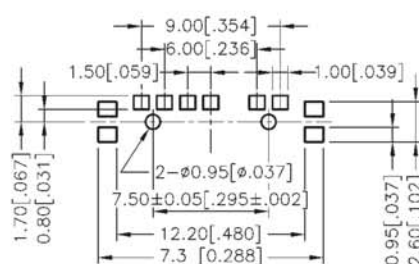
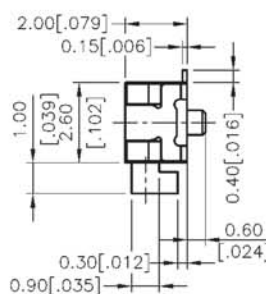
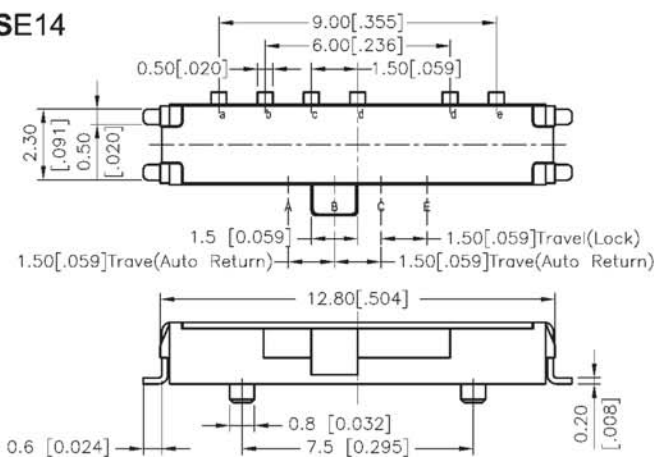
PACKAGE

To be confirmed.

CIRCUIT

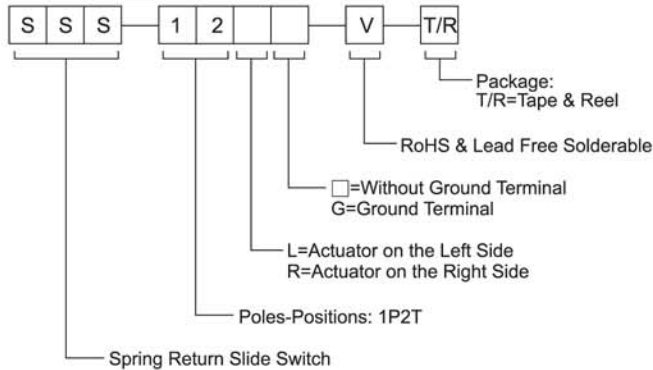


SE14



P.C.B LAYOUT

HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 10,000 cycles
Operation Force: 180±70gf
Stroke: 2.7mm

ENVIRONMENTAL

Operation Temperature Range : -10°C to +60°C
Storage Temperature Range : -20°C to +75°C

ELECTRICAL

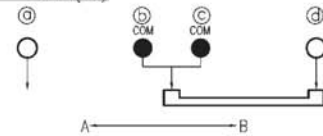
Electrical Life: 10,000 cycles
Rating: 0.3A, 4V DC

PACKAGE

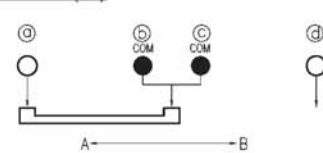
Tape & Reel: 2000 pcs/reel

CIRCUIT

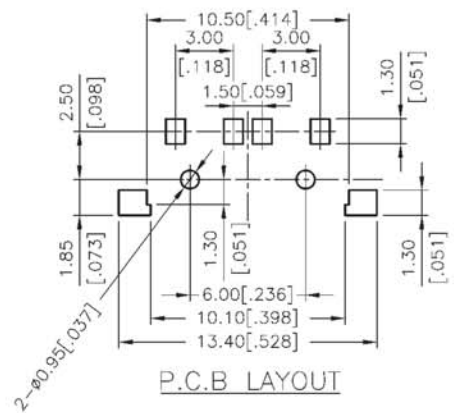
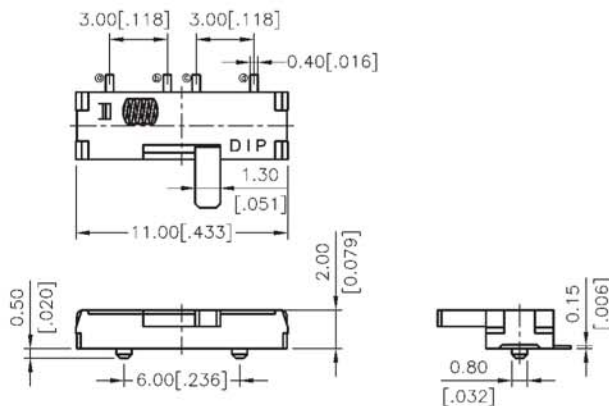
SSS-12R(G)



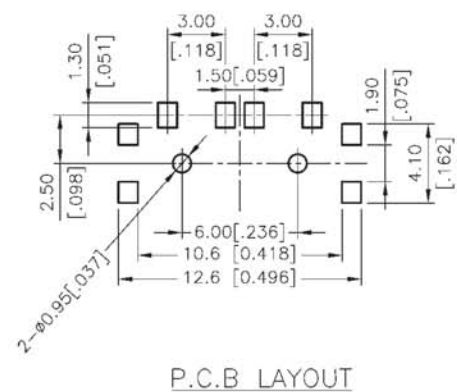
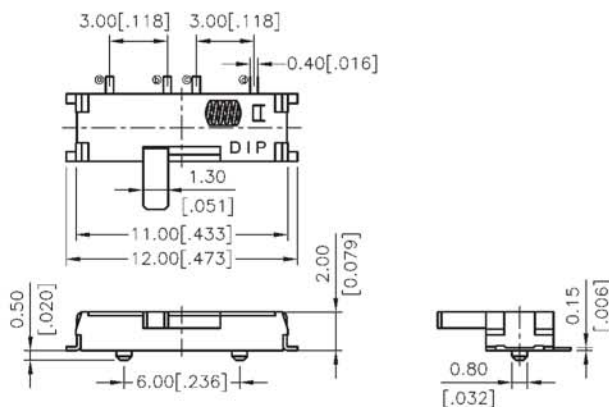
SSS-12L(G)



SSS-12R

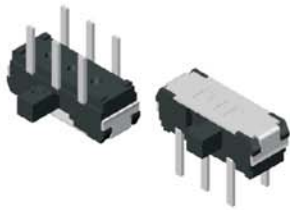


SSS-12LG

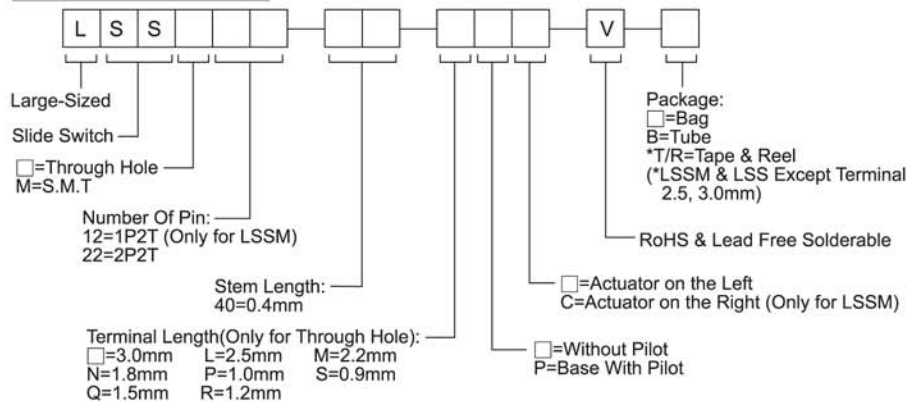


General Tolerance: ±0.2mm(±0.008")

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 10,000 cycles
Operation Force: 200±150gf
Stroke: 2mm

ENVIRONMENTAL

Operation Temperature Range : -10° C to +60° C
Storage Temperature Range : -20° C to +70° C

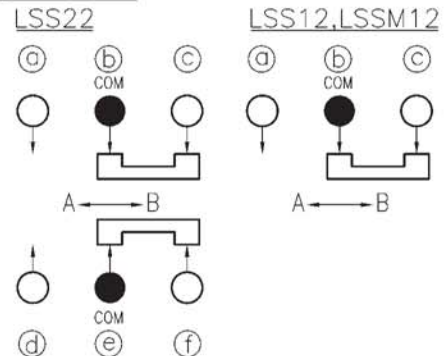
ELECTRICAL

Electrical Life: 10,000 cycles
Rating: 0.1A, 12V DC

PACKAGE

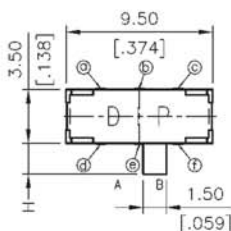
LSS12, 22-N,P,S,Q,R: 900 pcs/reel
LSS12, 22-□,M,L: 800 pcs/reel
LSS12, 22□-40: 800 pcs/reel

CIRCUIT

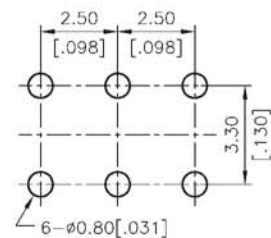
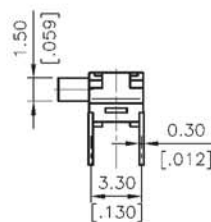
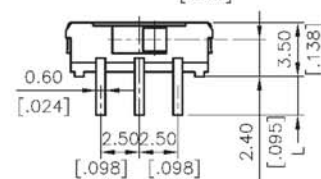


LSS22

LSS□□2R	1.20[.047]
LSS□□2Q	1.50[.059]
LSS□□2P	1.00[.039]
LSS22N	1.80[.070]
LSS□□2L	2.50[.098]
LSS□□2M	2.20[.087]
LSS□□2S	0.90[.035]
LSS□□2	3.00[.118]
PART NO.	L



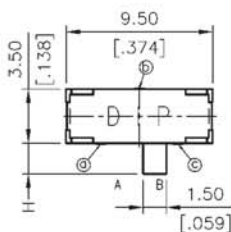
LSS□2-40	4.00[.157]
LSS□2	2.00[.079]
PART NO.	H



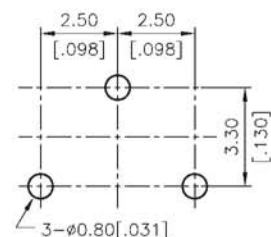
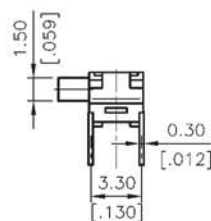
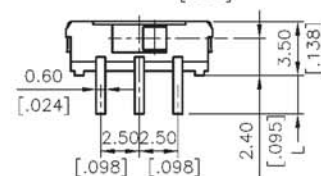
P.C.B. LAYOUT

LSS12

LSS□2R	1.20[.047]
LSS□2Q	1.50[.059]
LSS□2P	1.00[.039]
LSS22N	1.80[.070]
LSS□2L	2.50[.098]
LSS□2M	2.20[.087]
LSS□2S	0.90[.035]
LSS□2	3.00[.118]
PART NO.	L



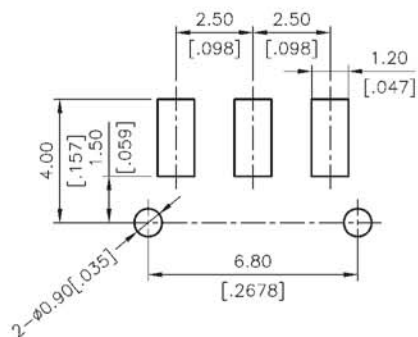
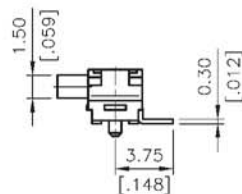
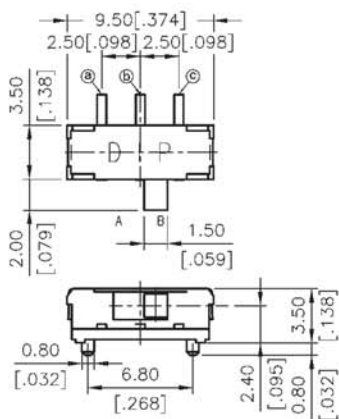
LSS□2-40	4.00[.157]
LSS□2	2.00[.079]
PART NO.	H



P.C.B LAYOUT

General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

LSSM12-P

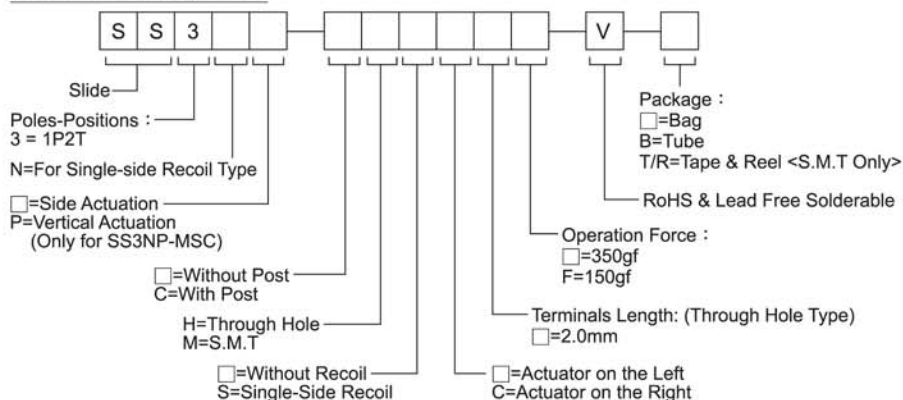


SLIDE SWITCH

SS3 SERIES

Recoil & SMT Type (1P2T)

HOW TO ORDER



SLIDE SWITCH

SPECIFICATION

MECHANICAL

Mechanical Life: 10,000 cycles
Operation Force: 100gf min, 350gf max
Stroke: 2mm

ENVIRONMENTAL

Operation Temperature Range : -20°C to +70°C
Storage Temperature Range : -40°C to +85°C

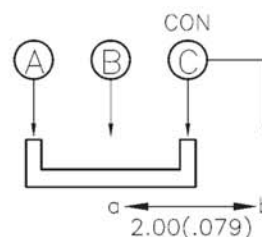
ELECTRICAL

Electrical Life: 10,000 cycles
Rating: 25mA, 24 VDC

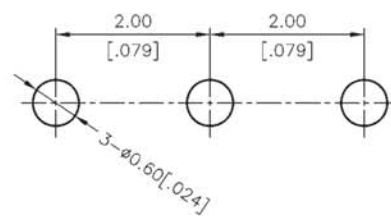
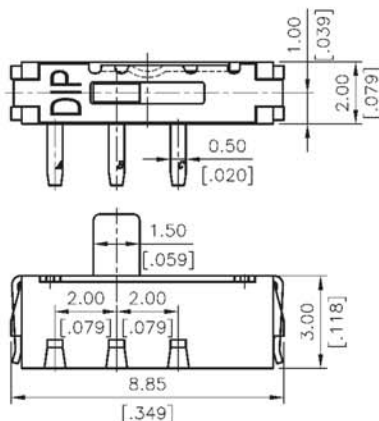
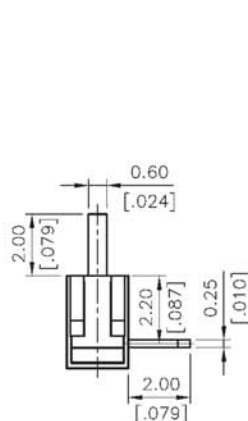
PACKAGE

2000 pcs/bag
53 pcs/tube
1900 pcs/reel

CIRCUIT

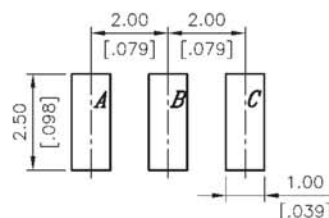
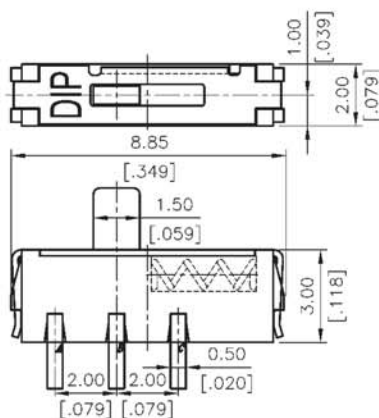
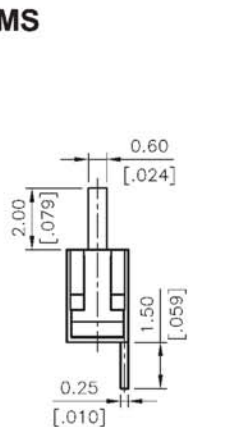


SS3-H



P.C.B. LAYOUT

SS3N-MS

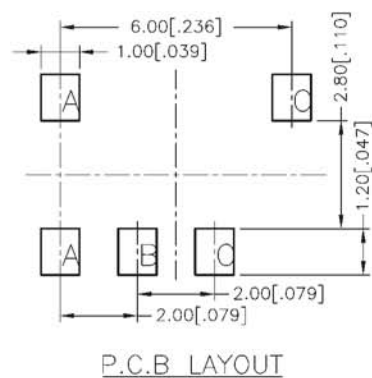
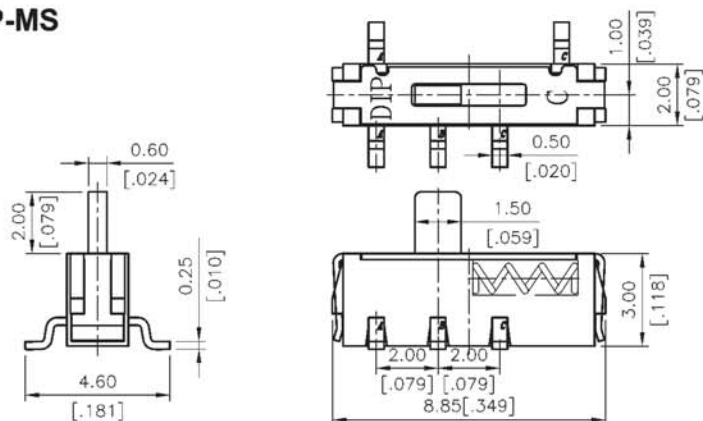


P.C.B. LAYOUT

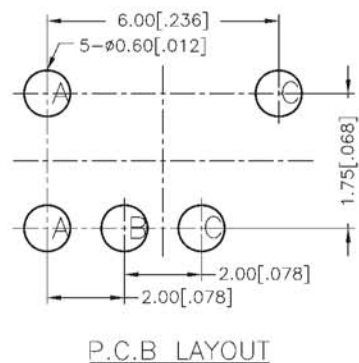
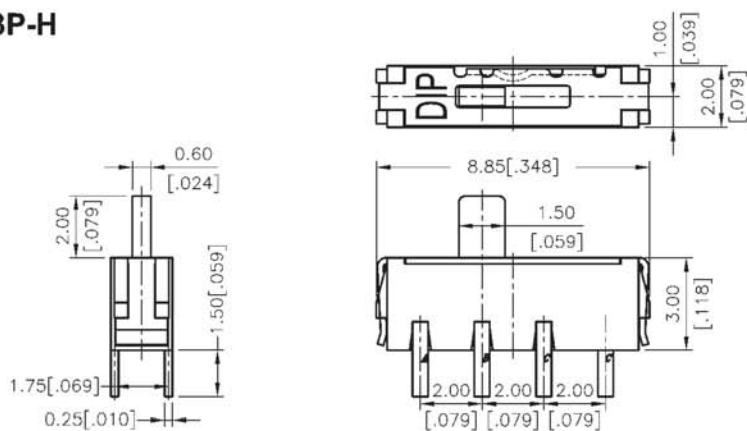
General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

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SS3NP-MS



SS3P-H

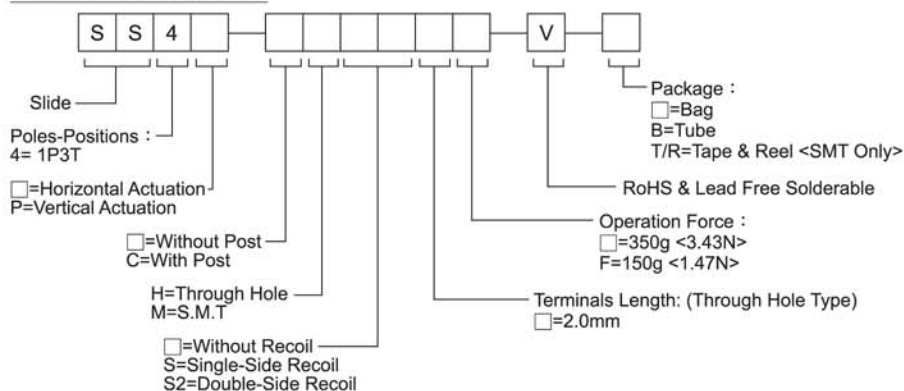


SS4 SERIES

**Recoil & SMT Type
(1P3T)**



HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 10,000 cycles
Operation Force: 100gf min, 350gf max
Stroke: 2mm

ENVIRONMENTAL

Operation Temperature Range : -20° C to +70° C
Storage Temperature Range : -40° C to +85° C

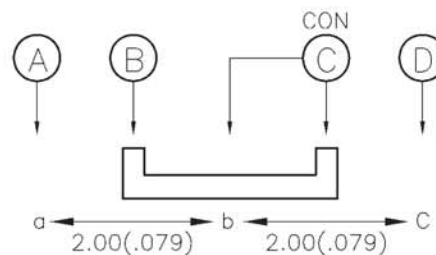
ELECTRICAL

Electrical Life: 10,000 cycles
Rating: 25mA, 24 VDC

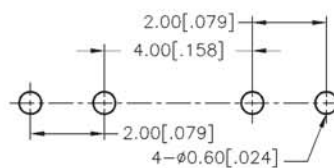
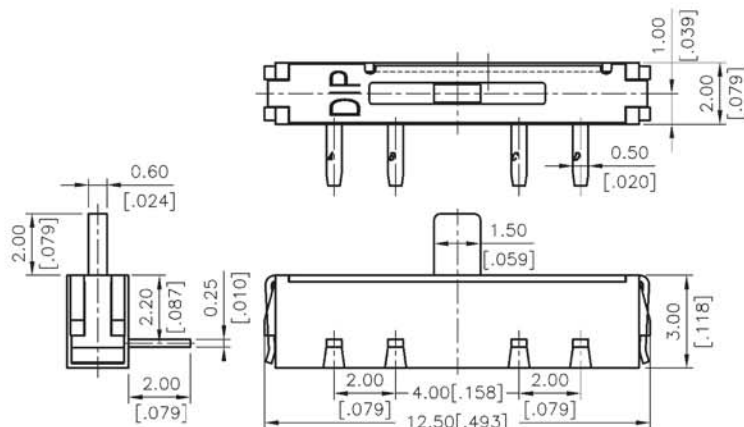
PACKAGE

1500 pcs/bag
38 pcs/tube
1900 pcs/reel

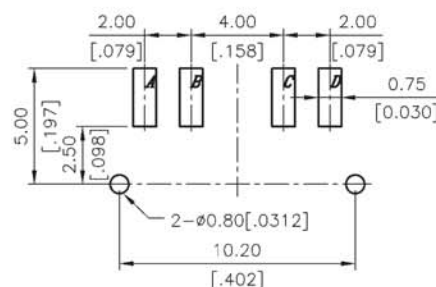
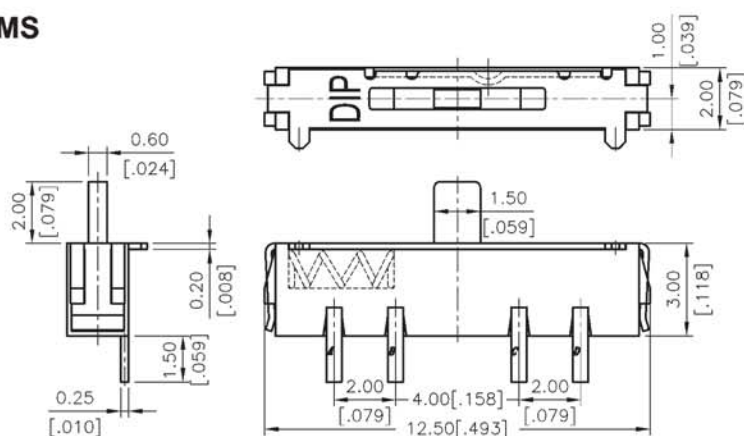
CIRCUIT



SS4-H



P.C.B LAYOUT

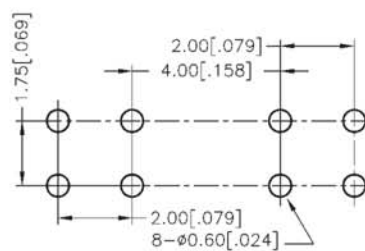
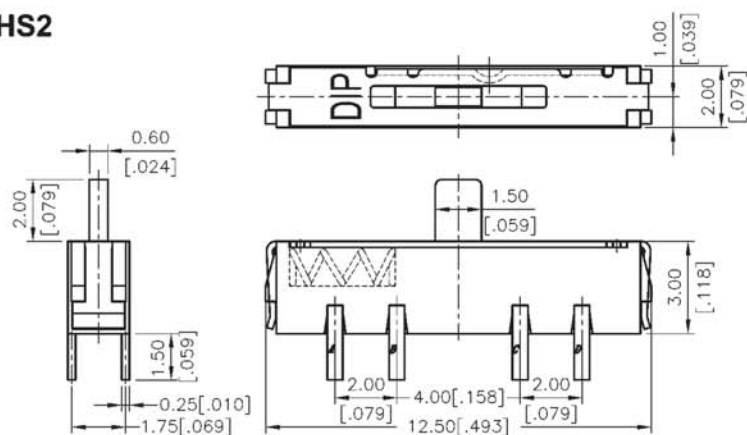
SS4-CMS

P.C.B LAYOUT

General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

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SS4P-HS2



P.C.B. LAYOUT

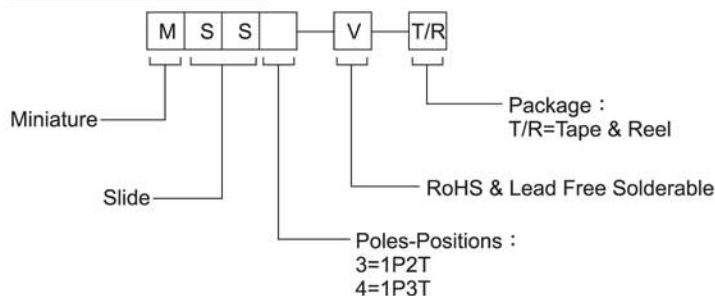
MSS3, MSS4 SERIES

Miniature SMT Type (1P2T, 1P3T)

77

SLIDE SWITCH

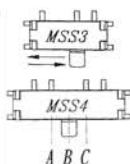
HOW TO ORDER



SPECIFICATION

MECHANICAL

Prod.	Operation Force
MSS3	150±100gf (1.47N±0.98N)
MSS4	A→B 150±100gf (1.47N±0.98N)
	B→C 200±150gf (1.96N±1.47N)
	C→B 150±100gf (1.47N±0.98N)
	B→A 200±150gf (1.96N±1.47N)



ELECTRICAL

Electrical Life: 10,000 cycles
Rating: 25mA, 24 VDC

PACKAGE

MSS3: 2500 pcs/reel
MSS4: 2500 pcs/reel

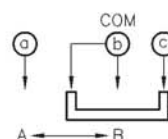
Stroke: 1.5mm

ENVIRONMENTAL

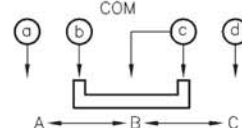
Operation Temperature Range : -20°C to +70°C
Storage Temperature Range : -40°C to +85°C

CIRCUIT

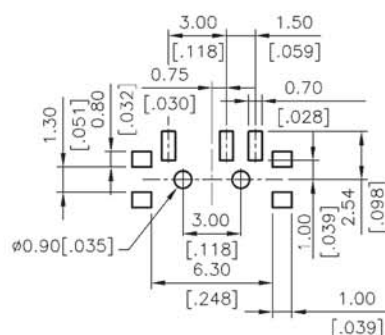
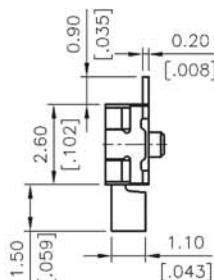
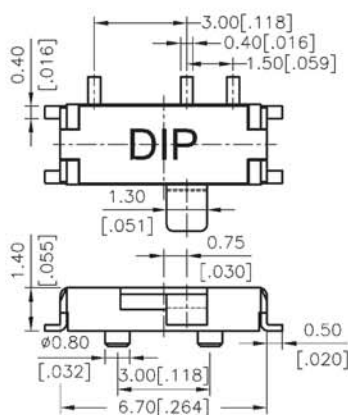
MSS3



MSS4

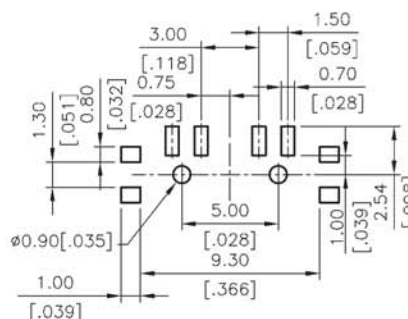
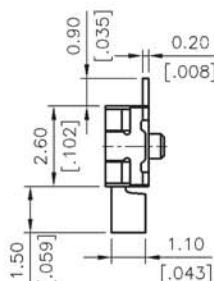
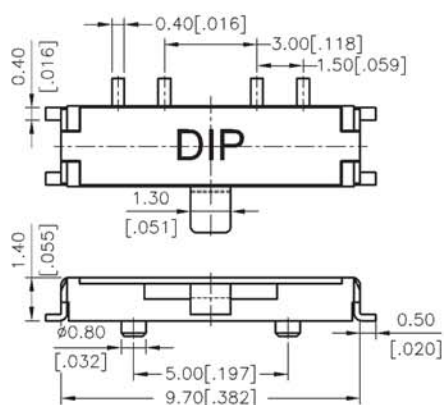


MSS3



P.C.B LAYOUT

MSS4



P.C.B LAYOUT

General Tolerance: ±0.2mm (±0.008")

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MSS6, MSS14 SERIES

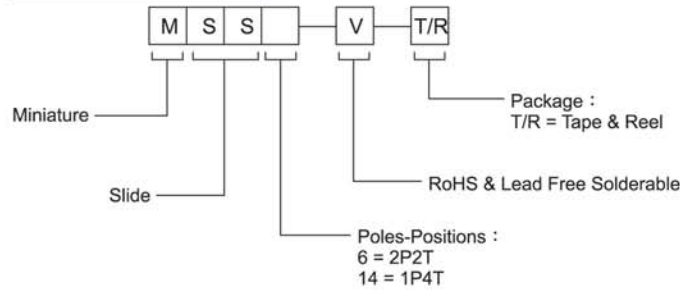
Miniature Travel & SMT Type (2P2T, 1P4T)



78

SLIDE SWITCH

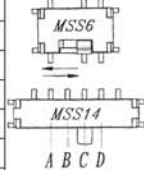
HOW TO ORDER



SPECIFICATION

MECHANICAL

Prod.	Operation Force
MSS6	200±150gf (1.96N±1.47N)
MSS14	B→C 200±150gf (1.96N±1.47N)
	C→D 200±150gf (1.96N±1.47N)
	C→B 200±150gf (1.96N±1.47N)
	B→A 200±150gf (1.96N±1.47N)
	A→B 150±100gf (1.47N±0.98N)
	D→C 150±100gf (1.47N±0.98N)



Stroke=1.5mm

ENVIRONMENTAL

Operation Temperature Range : -20°C to +70°C
Storage Temperature Range : -40°C to +85°C

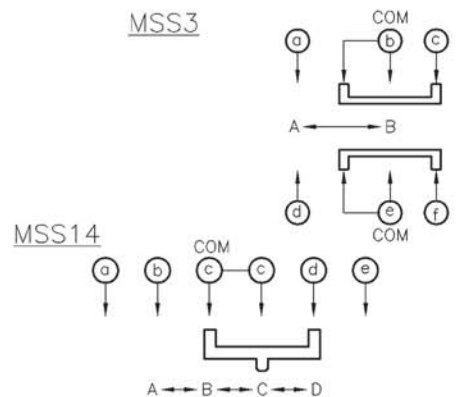
ELECTRICAL

Electrical Life: 10,000 cycles
Rating: 25mA, 24 VDC

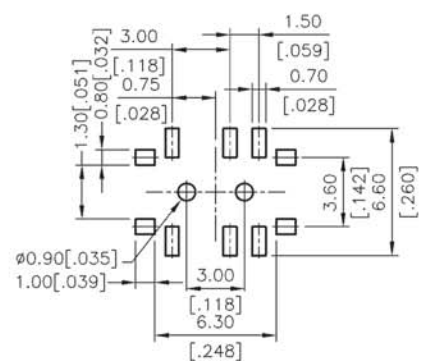
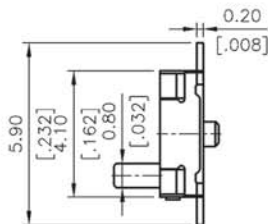
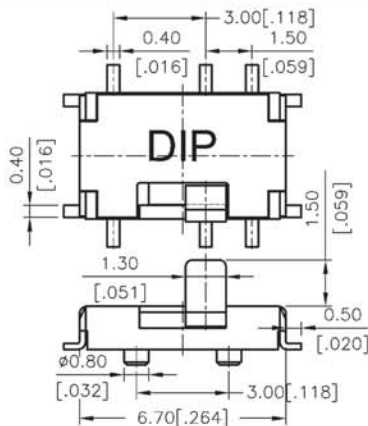
PACKAGE

MSS6: 1400 pcs/reel
MSS14: 2500 pcs/reel

CIRCUIT

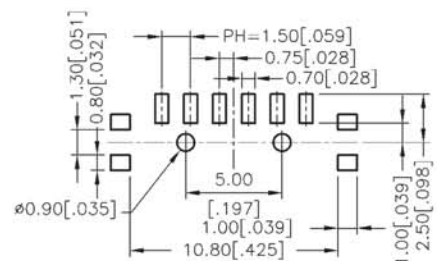
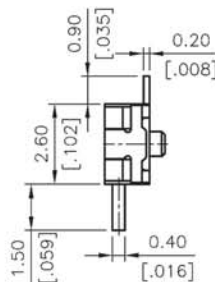
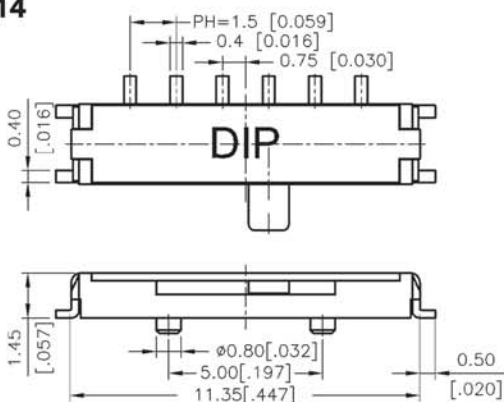


MSS6



P.C.B. LAYOUT

MSS14



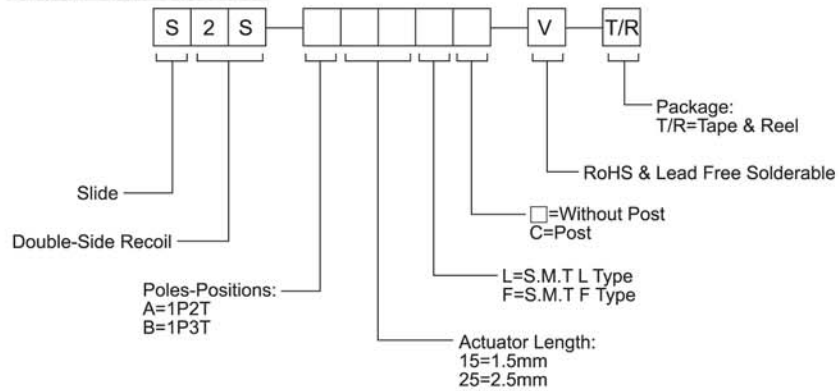
P.C.B. LAYOUT

General Tolerance: ±0.2mm (±0.008")

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 50,000 cycles
Operation Force: 100±50gf
Stroke: 1.50±0.2mm

ENVIRONMENTAL

Operation Temperature Range : -30°C to +80°C
Storage Temperature Range : -40°C to +90°C

ELECTRICAL

Electrical Life: 50,000 cycles
Rating: 300mA, 4V DC

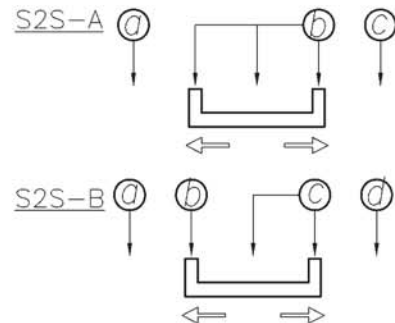
PACKAGE

Tape & Reel: 2000 pcs/reel

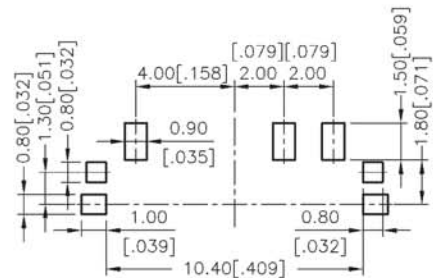
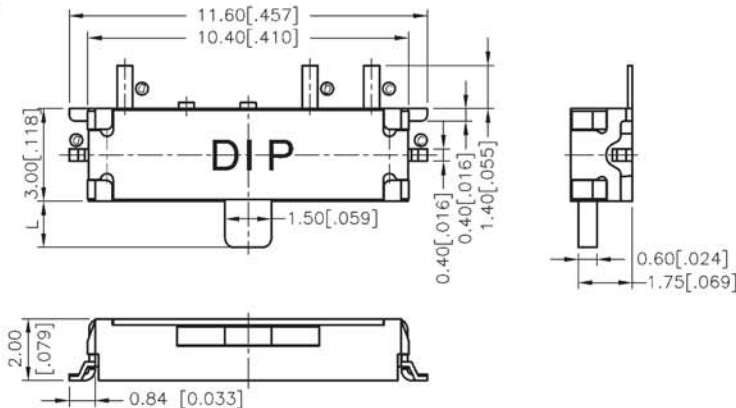
PACKAGE

Tape & Reel: 2000 pcs/reel

CIRCUIT

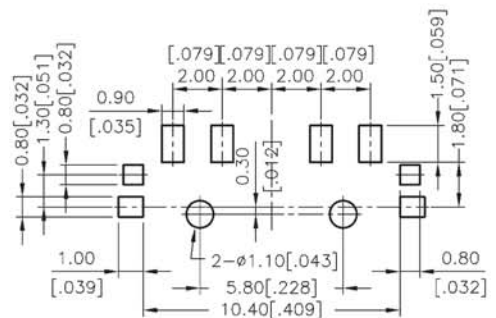
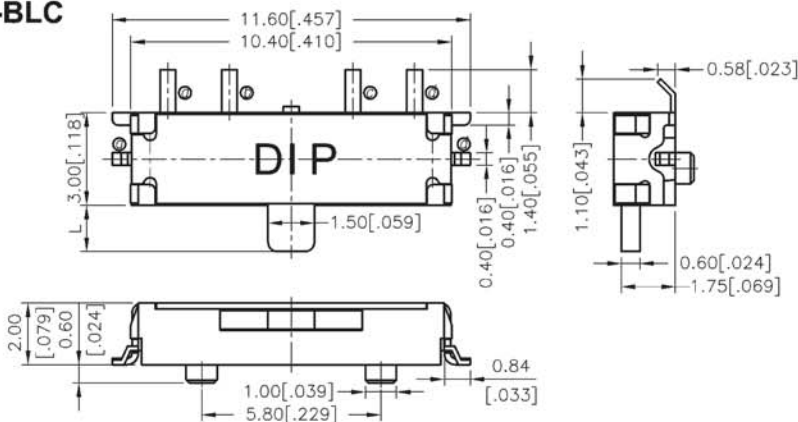


S2S-AF



P.C.B LAYOUT

S2S-BLC

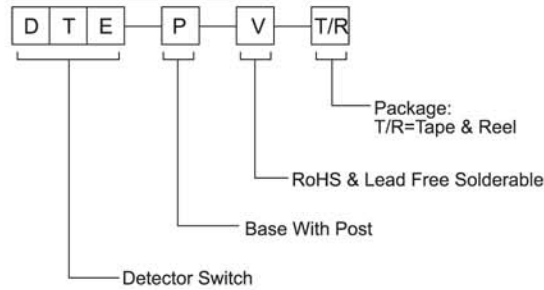


P.C.B LAYOUT

General Tolerance: ±0.2mm(±0.008")

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 100,000 cycles
Operation Force: 30gf max.
Stroke: 1.5±0.3 mm

ENVIRONMENTAL

Operation Temperature Range : -10°C to +60°C
Storage Temperature Range : -20°C to +70°C

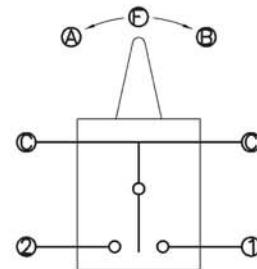
ELECTRICAL

Electrical Life: 100,000 cycles.
Rating: 10mA, 5VDC

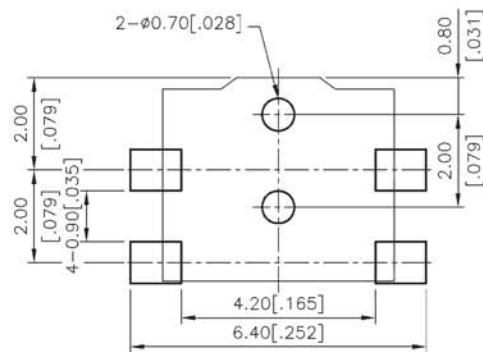
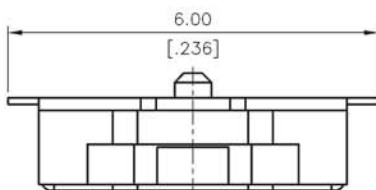
PACKAGE

Tape & Reel: 3800 pcs/reel

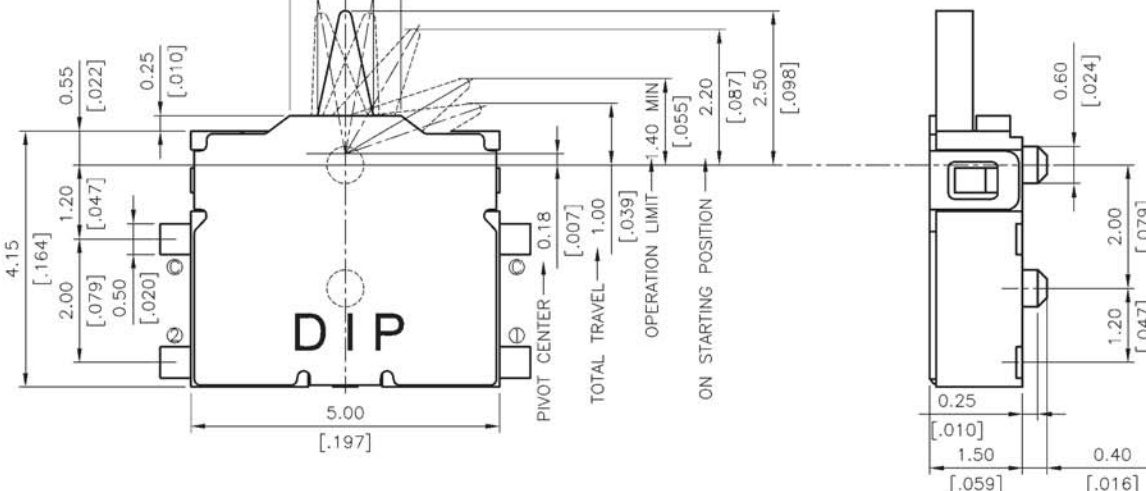
CIRCUIT



DTE



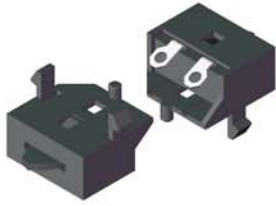
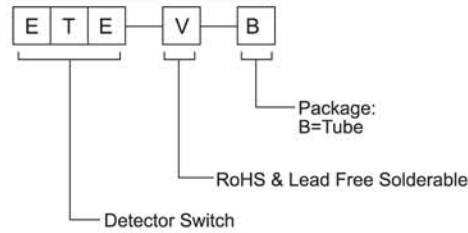
P.C.B. LAYOUT



General Tolerance: ±0.2mm (±0.008")

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 300,000 cycles
Operation Force: 50gf max
Stroke: 1.6 mm max

ENVIRONMENTAL

Operation Temperature Range : -30°C to +70°C
Storage Temperature Range : -40°C to +80°C

ELECTRICAL

Electrical Life: 300,000 cycles.
Rating: 0.1mA, 5V DC

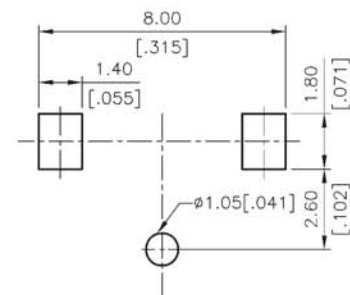
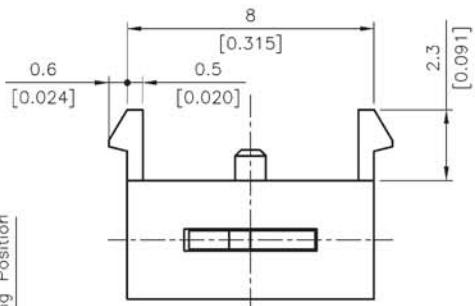
PACKAGE

Tube:60 pcs/tube

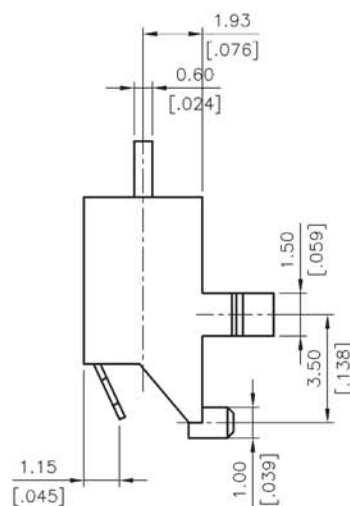
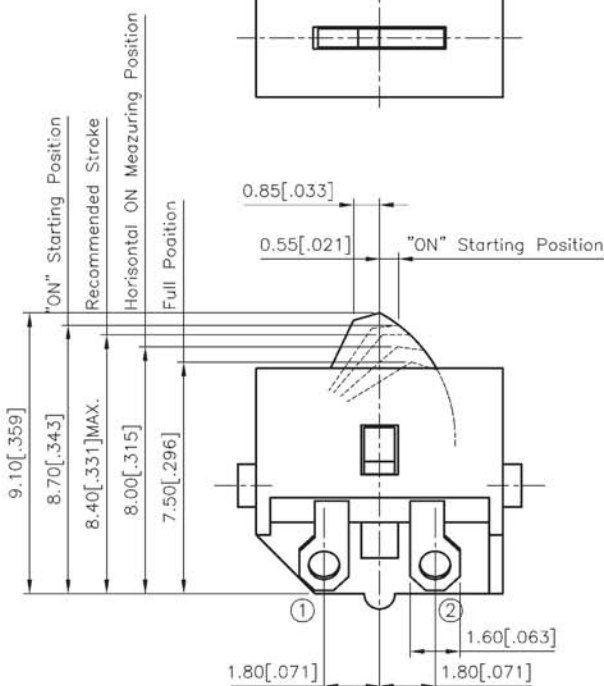
CIRCUIT



ETE



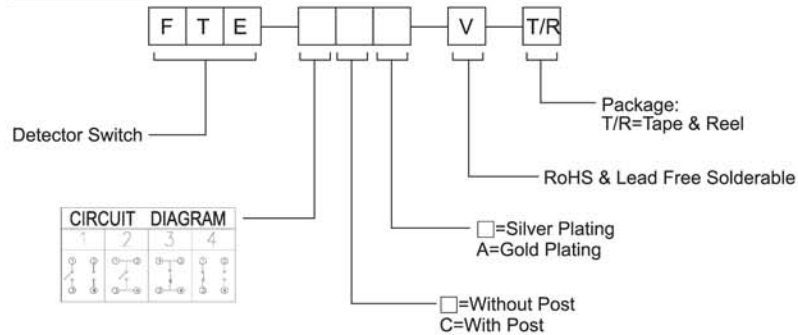
Mounting Hole Layout



General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008"$)

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 100,000 cycles
Operation Force: 50gf max.
Stroke: 2.0mm

ENVIRONMENTAL

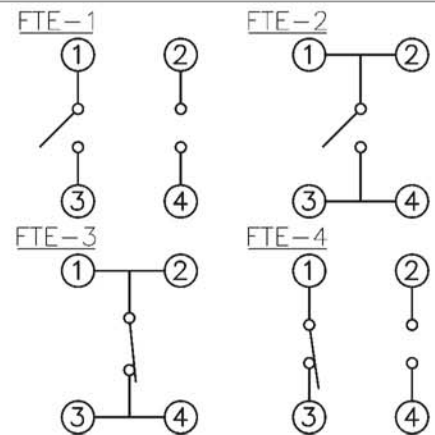
Operation Temperature Range : -10°C to +60°C
Storage Temperature Range : -20°C to +70°C

ELECTRICAL

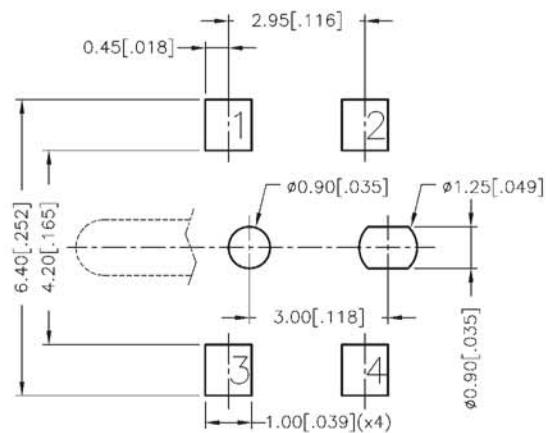
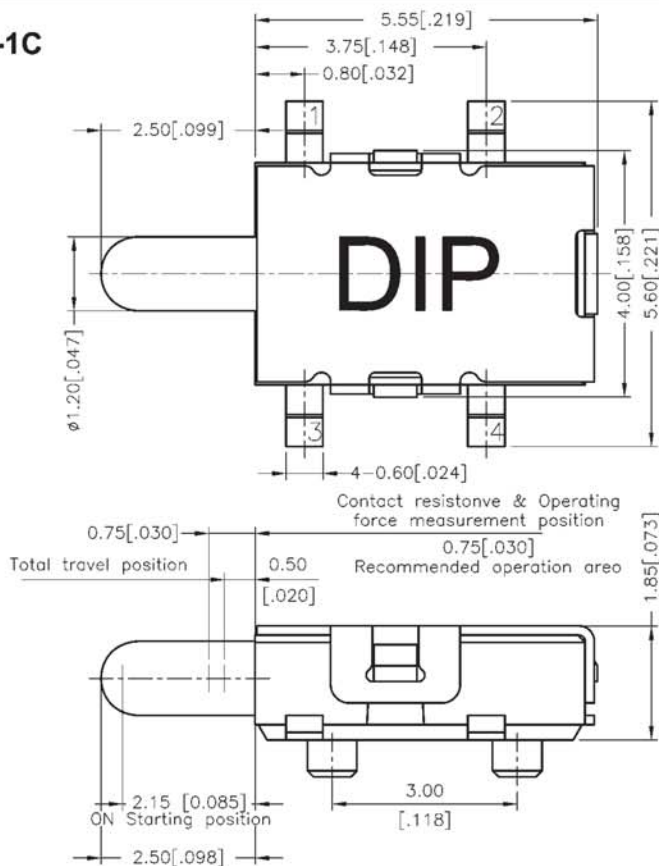
Electrical Life: 100,000 cycles.
Rating: 1mA, 5VDC

PACKAGE

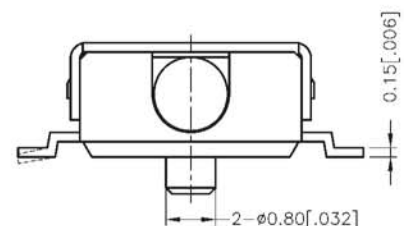
Tape & Reel : 3000 pcs/reel



FTE-1C



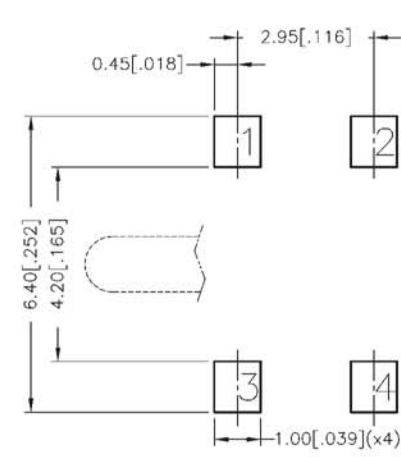
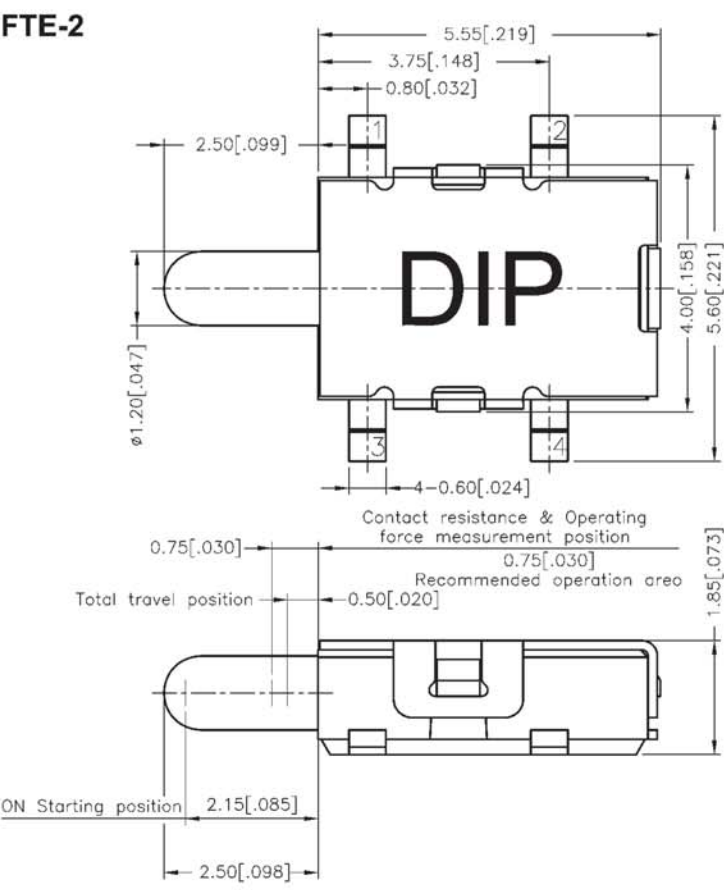
P.C.B. LAYOUT



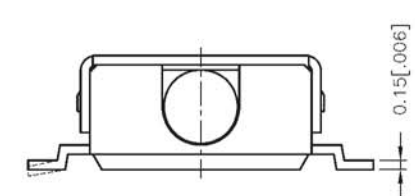
General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

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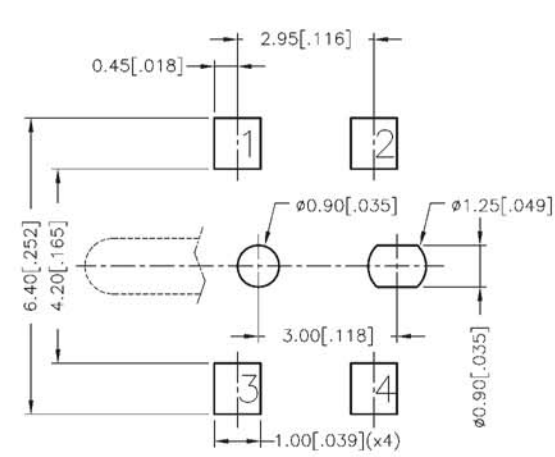
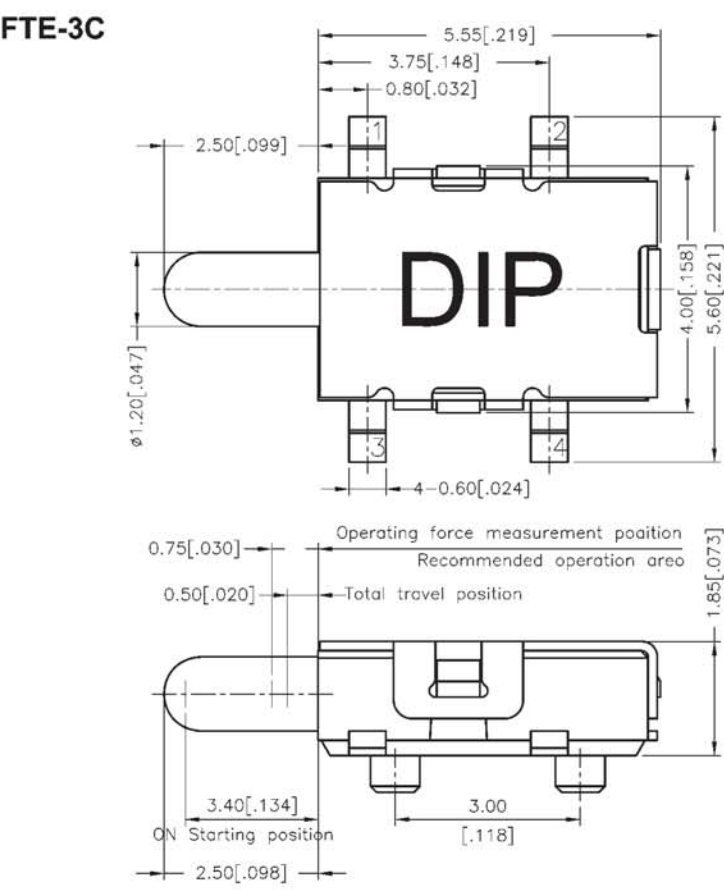
FTE-2



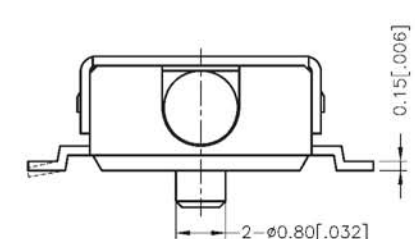
P.C.B. LAYOUT



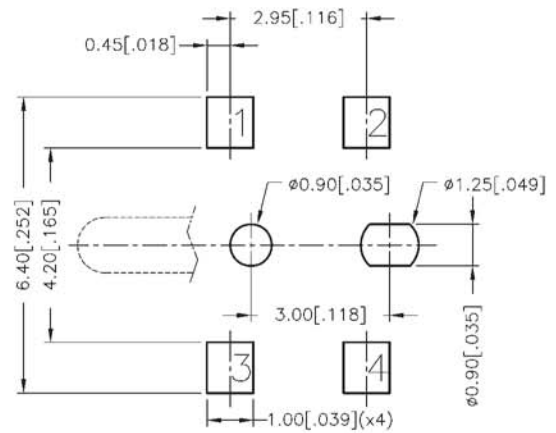
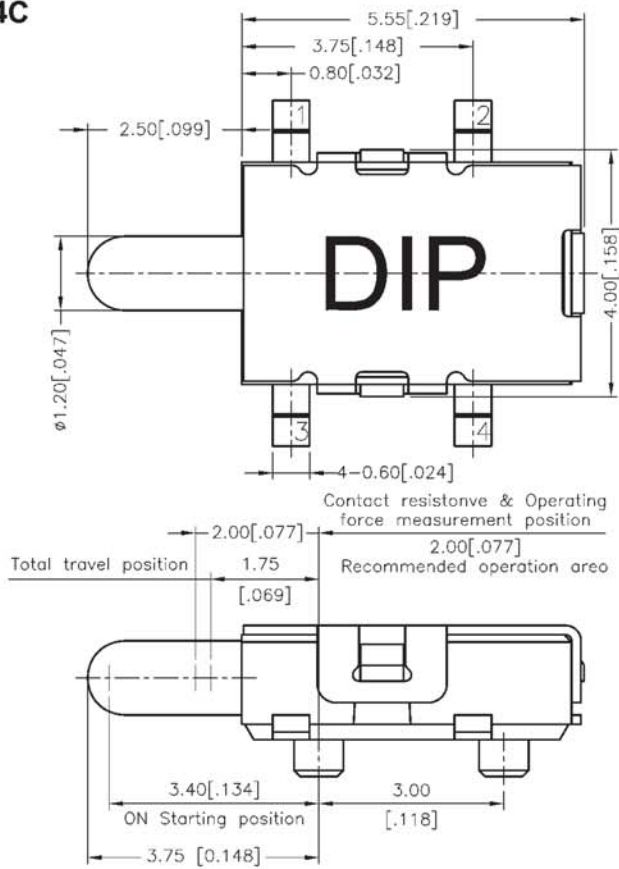
FTE-3C



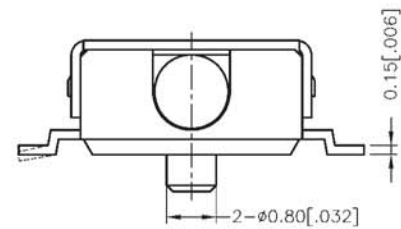
P.C.B. LAYOUT



FTE-4C

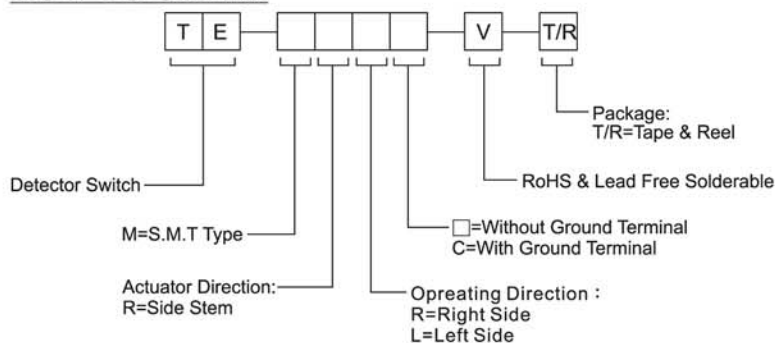


P.C.B. LAYOUT





HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 50,000 cycles
Operation Force: 40gf max.
Stroke: 2.15mm max.

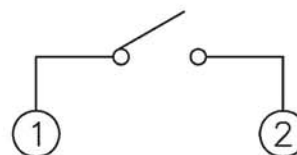
ENVIRONMENTAL

Operation Temperature Range : -10° C to +60° C
Storage Temperature Range : -20° C to +70° C

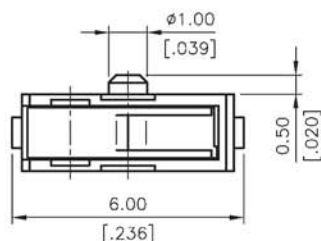
ELECTRICAL

Electrical Life: 50,000 cycles.
Rating: 50mA, 20VDC.

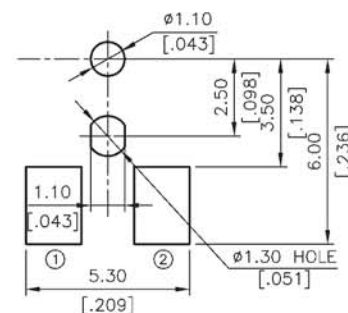
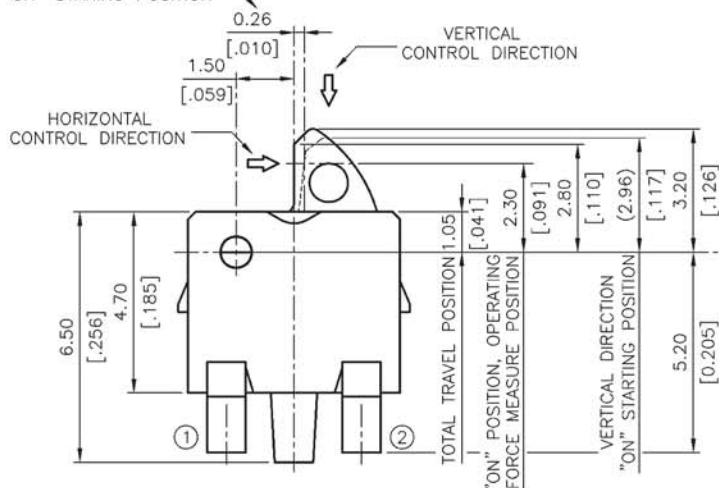
CIRCUIT



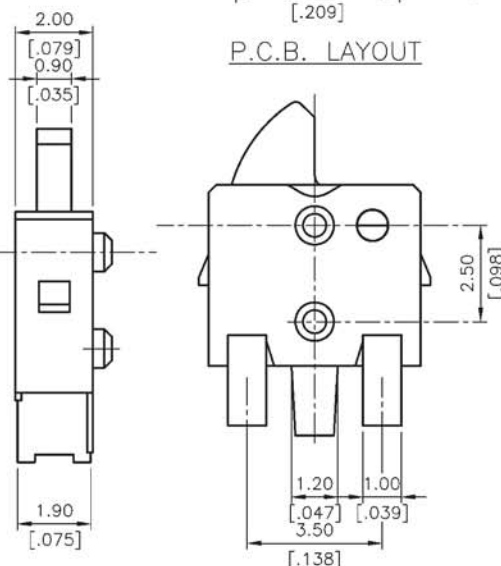
TE-MRR



HORIZONTAL DIRECTION
"ON" STARING POSITION

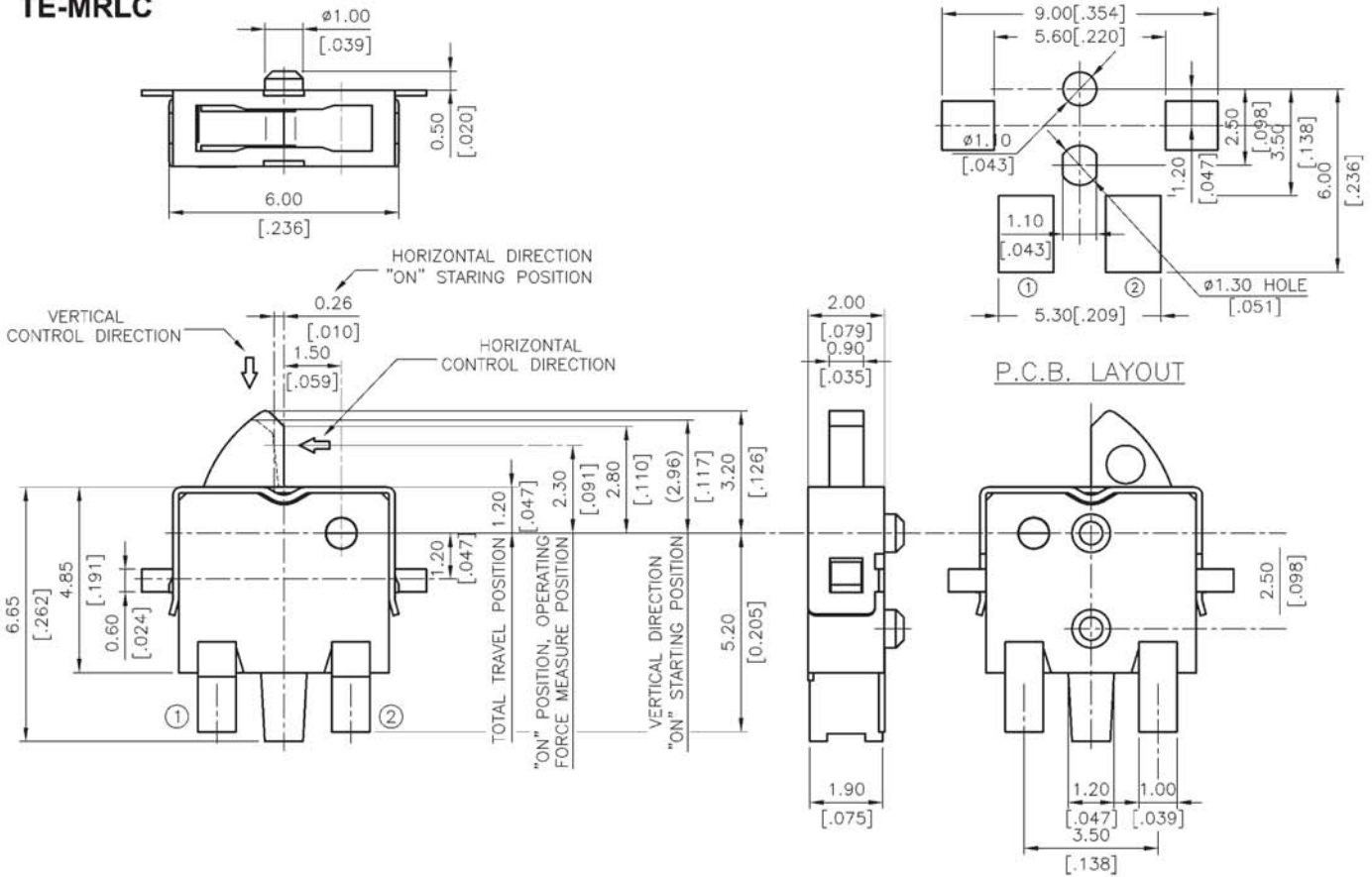


P.C.B. LAYOUT



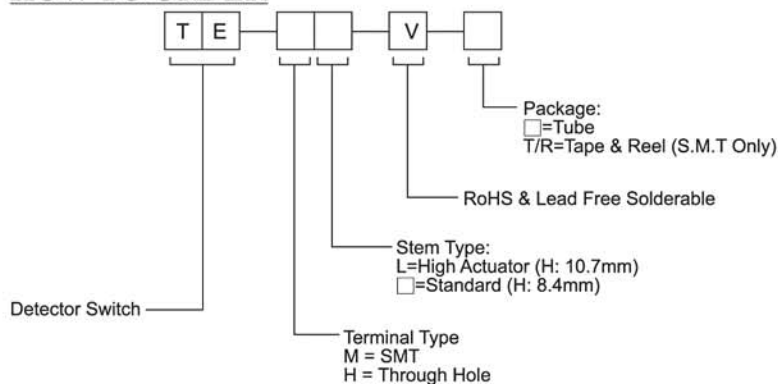
General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

TE-MRLC



DETECTOR SWITCH

HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 30gf max.
Stroke: 2mm

ENVIRONMENTAL

Operation Temperature Range : -20°C to +70°C
Storage Temperature Range : -30°C to +80°C

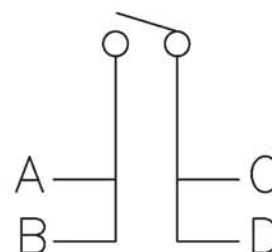
ELECTRICAL

Electrical Life: 50,000 cycles.
Rating: 5mA, 5VDC.

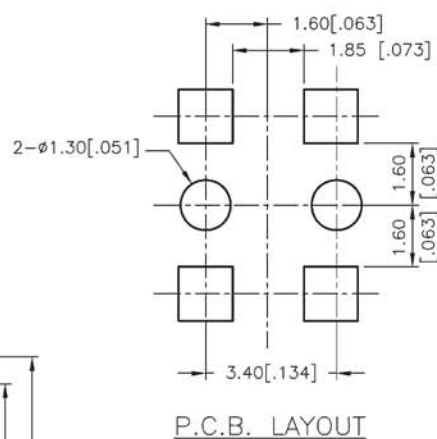
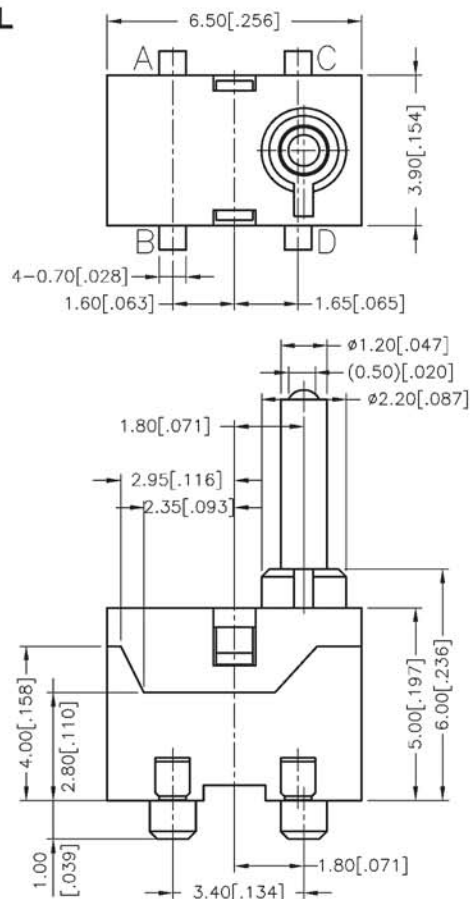
PACKAGE

Tube: 72 pcs/tube
TE-M: 500 pcs/reel
TE-ML: 400 pcs/reel

CIRCUIT



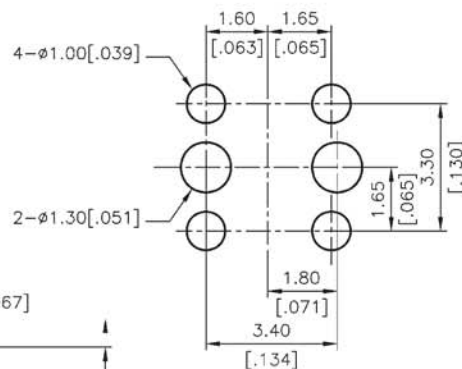
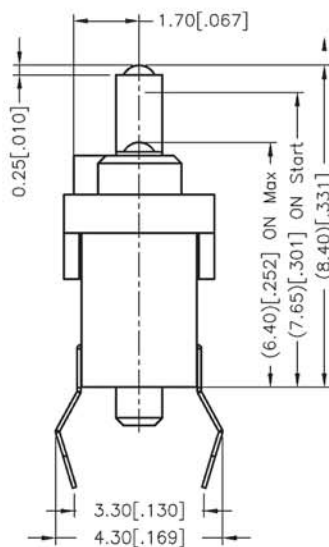
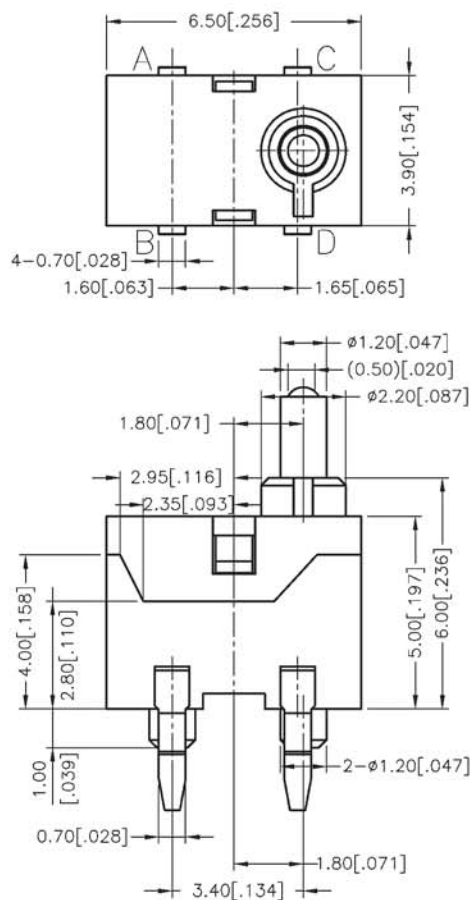
TE-ML



General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

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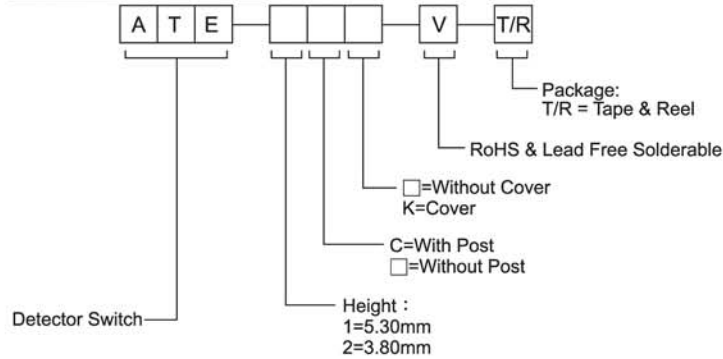
TE-H



P.C.B. LAYOUT



HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 100,000 cycles
Operation Force: 40gf max.
Stroke : 3.90mm max. < Stem Height 5.30mm>
2.60mm max. < Stem Height 3.80mm>

ENVIRONMENTAL

Operation Temperature Range : -10°C to +60°C
Storage Temperature Range : -20°C to +70°C

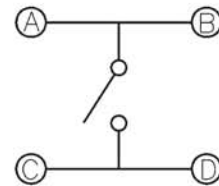
ELECTRICAL

Electrical Life: 100,000 cycles.
Rating: 1mA, 5VDC.

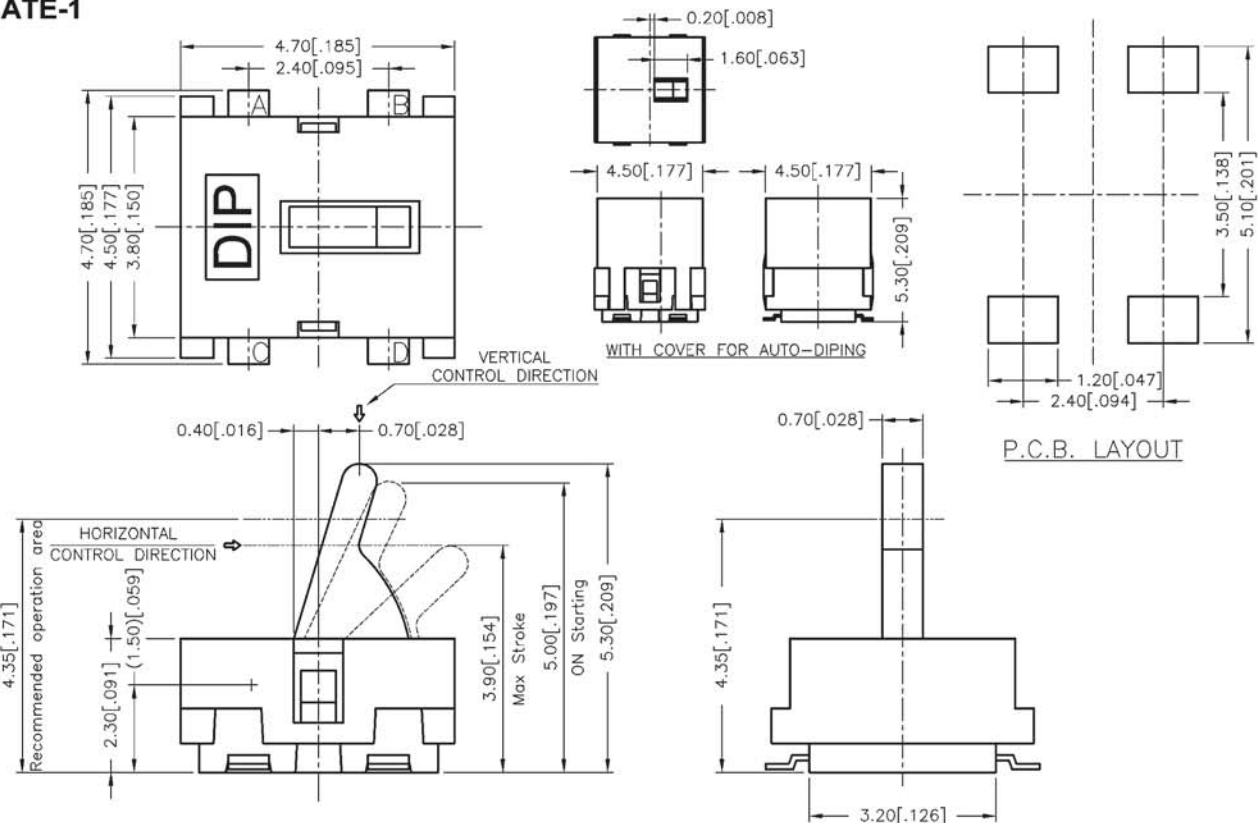
PACKAGE

ATE-1 ☐-T/R: 900 pcs/reel
ATE-2 ☐K-T/R: 900 pcs/reel
ATE-2 ☐-T/R: 1200 pcs/reel

CIRCUIT



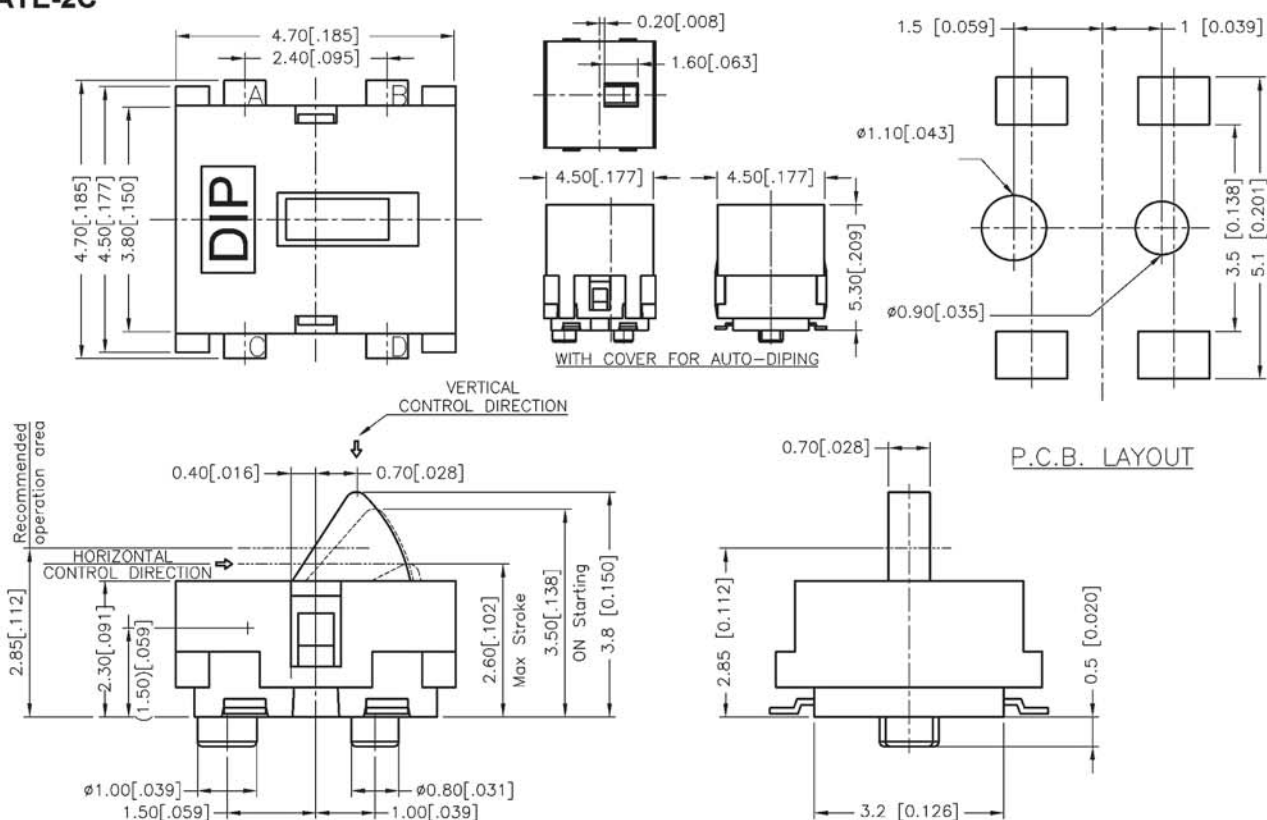
ATE-1



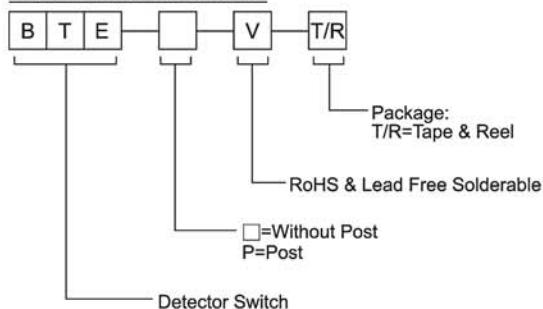
General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

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ATE-2C



HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: 50gf max.
Stroke: 1.03mm max.

ENVIRONMENTAL

Operation Temperature Range : -10°C to +60°C
Storage Temperature Range : -20°C to +70°C

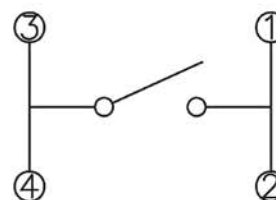
ELECTRICAL

Electrical Life: 100,000 cycles.
Rating: 1mA, 5VDC.

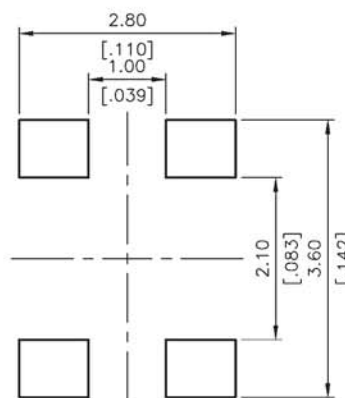
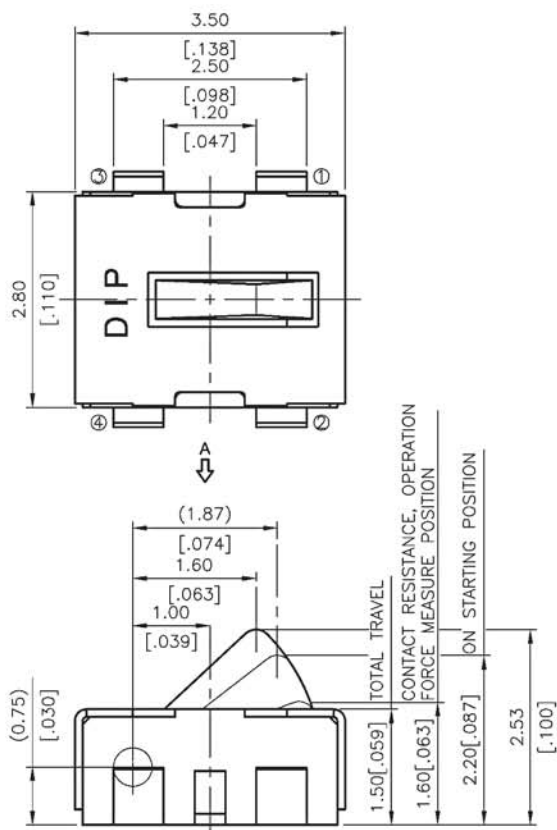
PACKAGE

Tape & Reel : 2600 pcs/reel

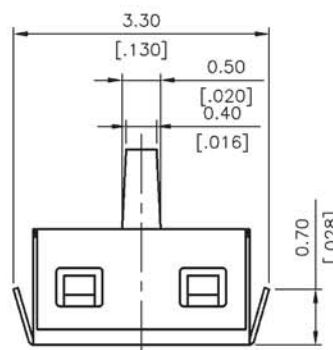
CIRCUIT



BTE

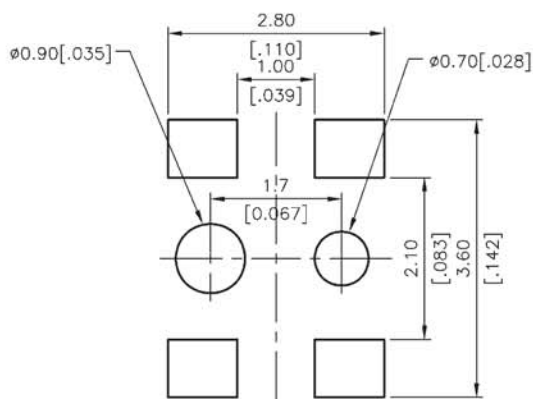
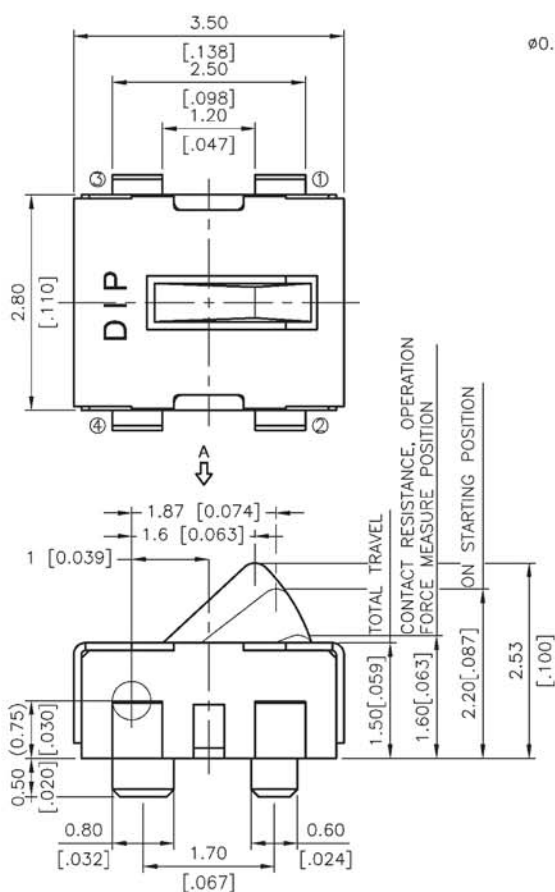


P.C.B. LAYOUT

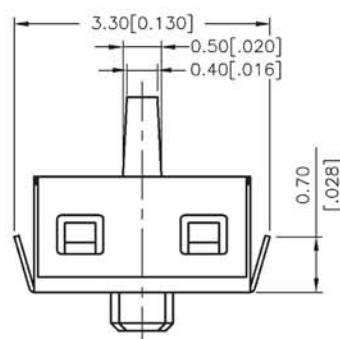


General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

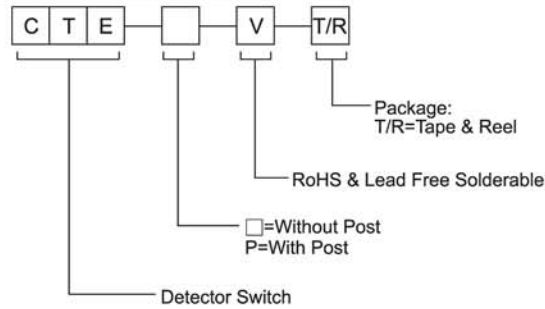
BTE-P



P.C.B. LAYOUT



HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 100,000 cycles
Operation Force: 35gf max.
Stroke: 1.05 mm

ENVIRONMENTAL

Operation Temperature Range : -15°C to +70°C
Storage Temperature Range : -40°C to +85°C

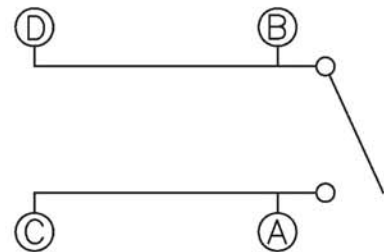
ELECTRICAL

Electrical Life: 100,000 cycles.
Rating: 0.1mA~100mA, 20mV~5V DC

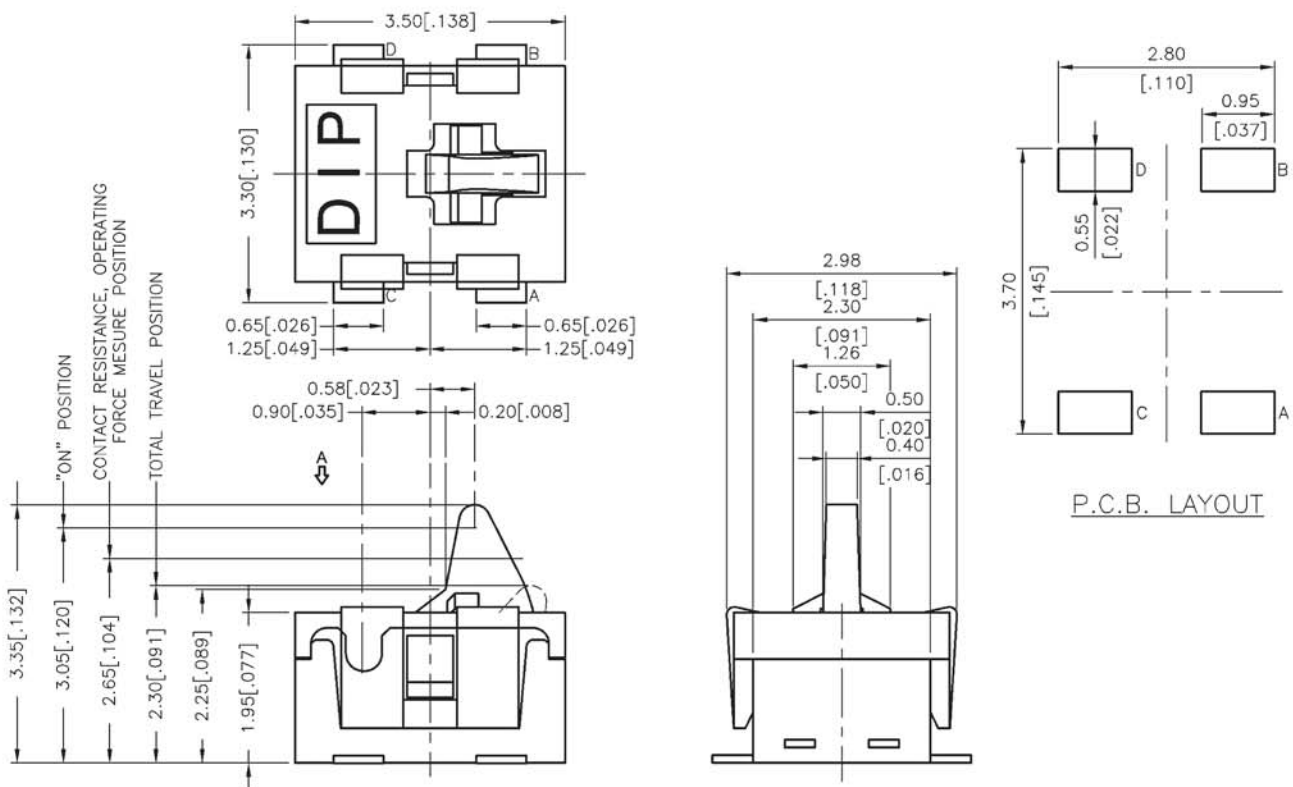
PACKAGE

Tape & Reel : 1800 pcs/reel

CIRCUIT



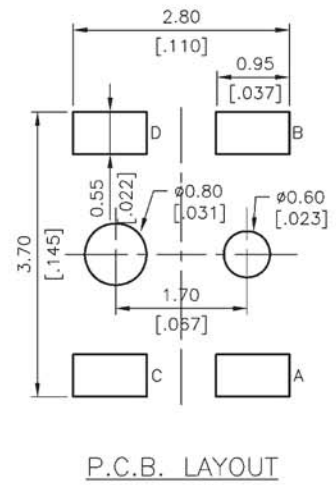
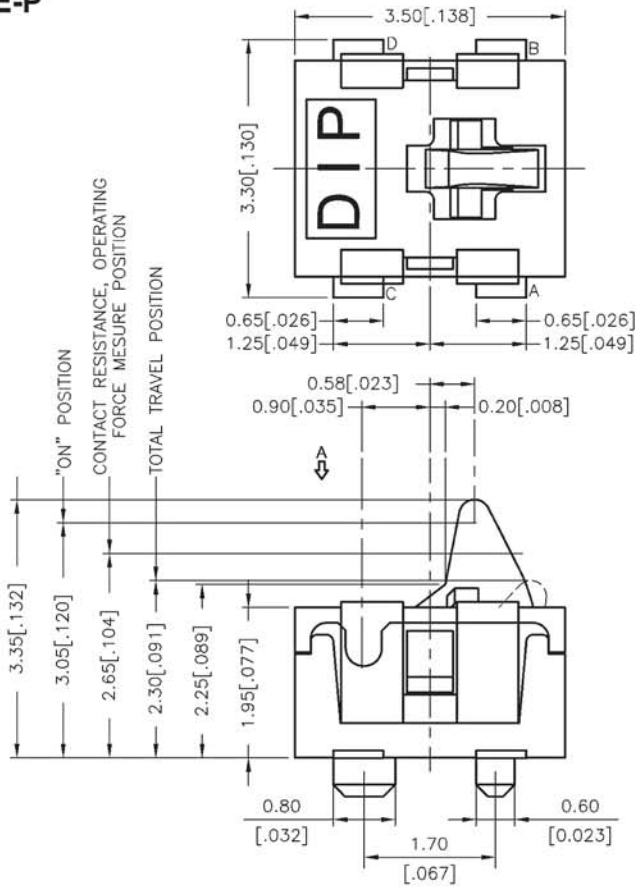
CTE



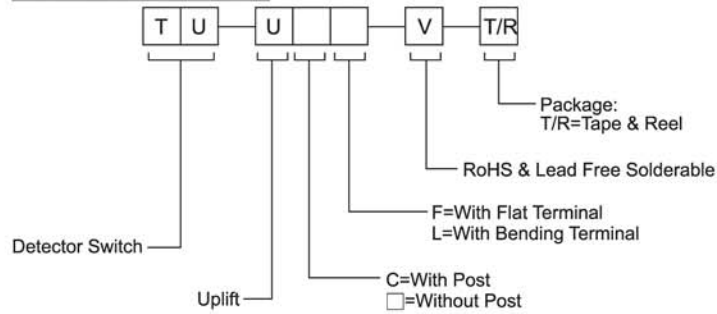
General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

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CTE-P



HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life : 50,000 cycles
Operation Force: 40gf max.
Stroke: 60°

ENVIRONMENTAL

Operation Temperature Range : -10°C to +60°C
Storage Temperature Range : -20°C to +70°C

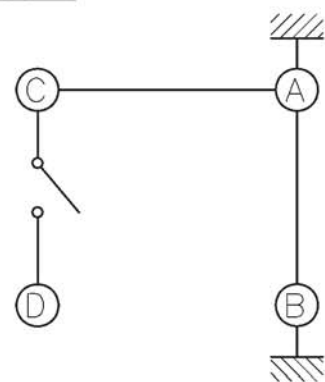
ELECTRICAL

Electrical Life: 50,000 cycles.
Rating: 1mA, 5VDC

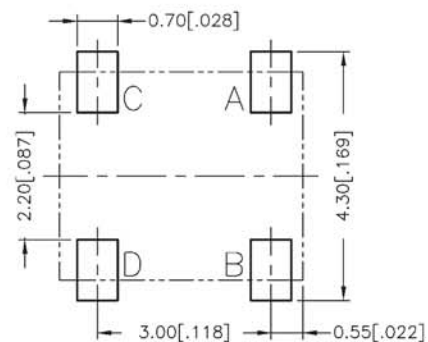
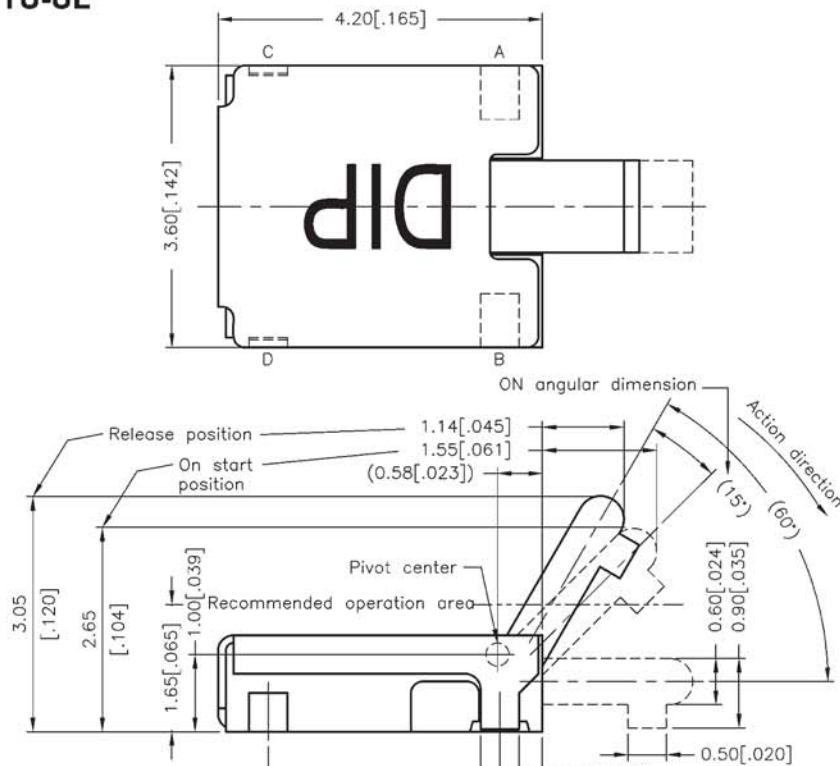
PACKAGE

Tape & Reel : 2300 pcs/reel

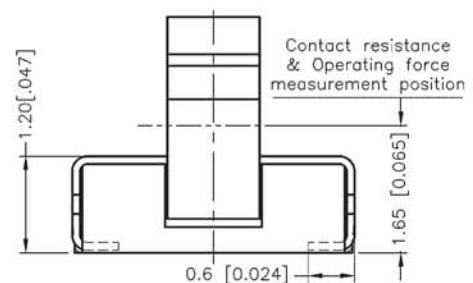
CIRCUIT



TU-UL



P.C.B. LAYOUT

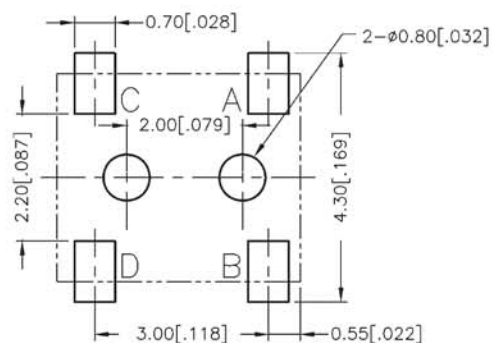
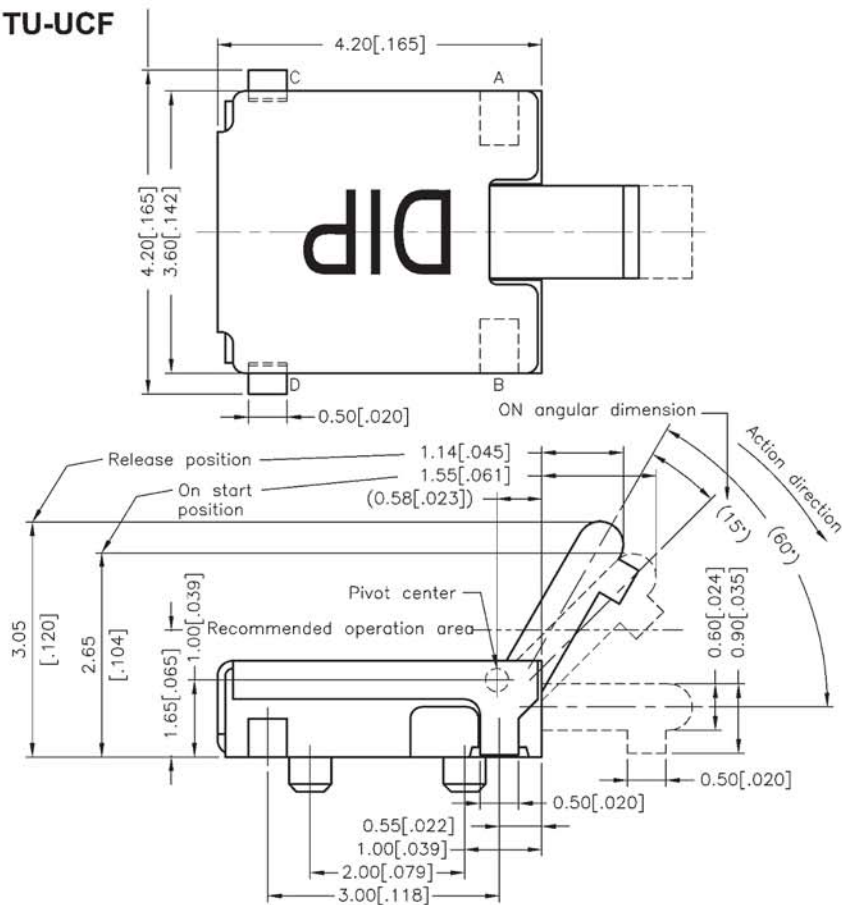


General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

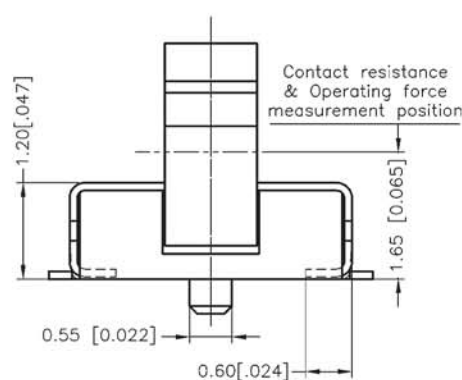
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DETECTOR SWITCH

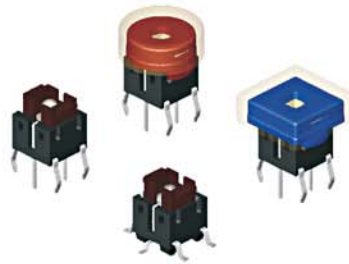
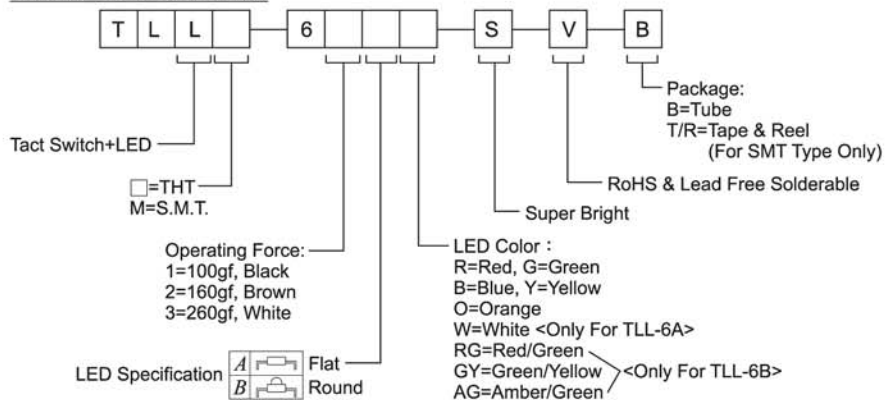
TU-UCF



P.C.B. LAYOUT



HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 200,000 cycles
Operation Force: 100±50gf TL(L)-61
160±50gf TL(L)-62
260±50gf TL(L)-63

Stroke: 0.20±0.10 mm

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
Storage Temperature Range : -30°C to +80°C

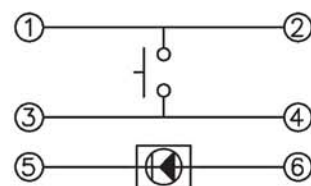
ELECTRICAL

Electrical Life: 200,000 cycles.
Rating: 50mA, 12VDC

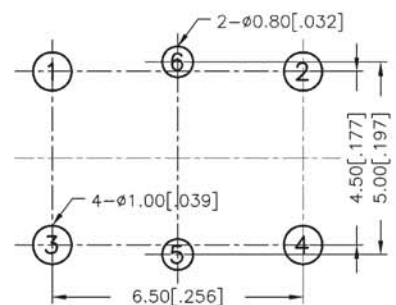
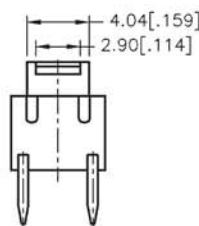
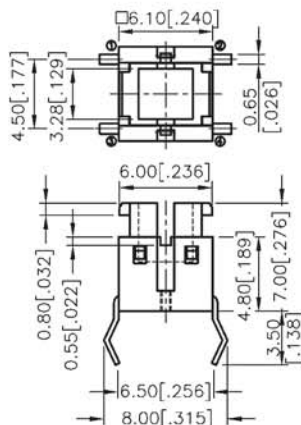
PACKAGE

Tube: 75 pcs/tube
Tape & Reel: 450 (Only for TLLM-6)

CIRCUIT

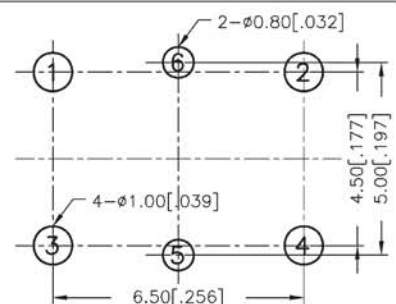
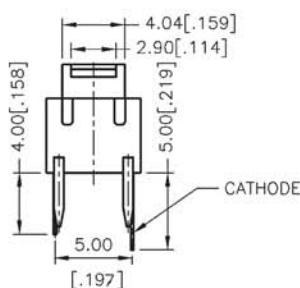
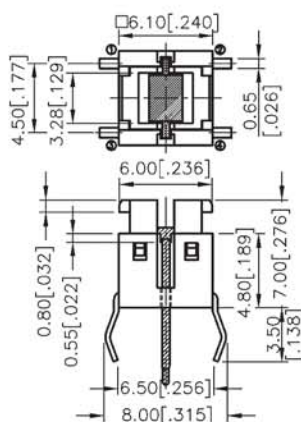


TL-6



P.C.B. LAYOUT

TLL-6A

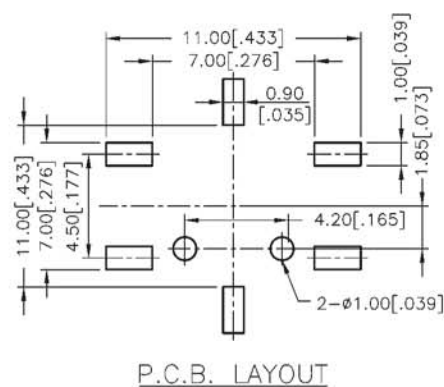
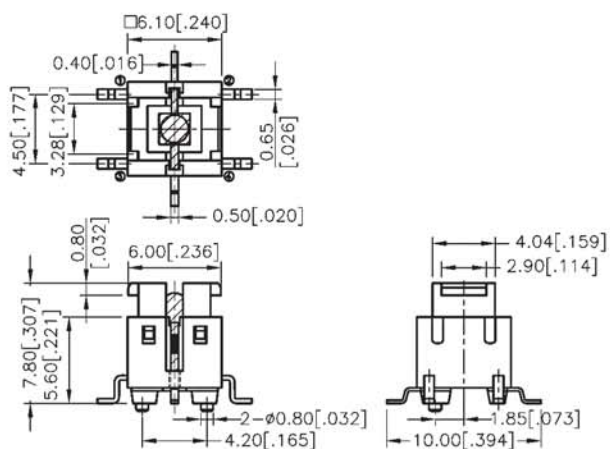


P.C.B. LAYOUT

General Tolerance: ±0.2mm(±0.008")

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TLLM-6B



HOW TO ORDER

K T L A

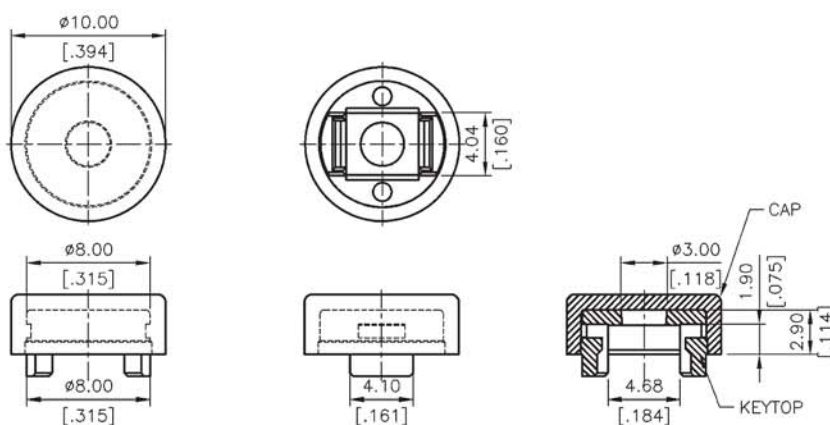
Color :
Y=Yellow
B=Blue
R=Red
I=Ivory
K=Black
G=Green
S=Salmon

R=Round
S=Square

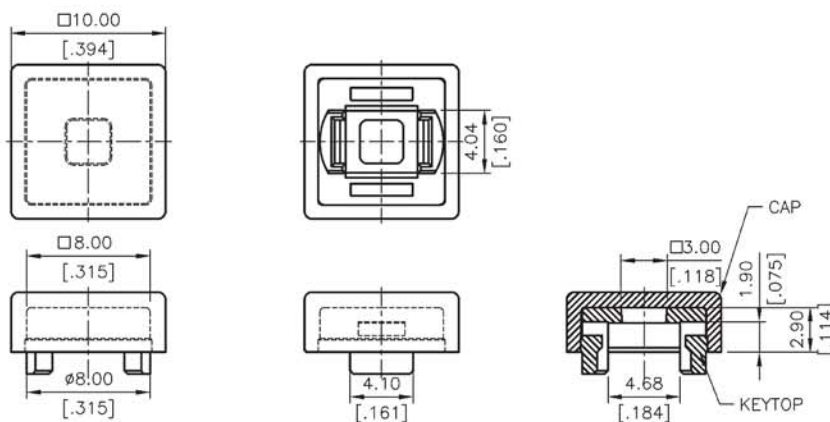
Round 10mm or Square 10mm

* PACKAGE: 500 pcs/bag

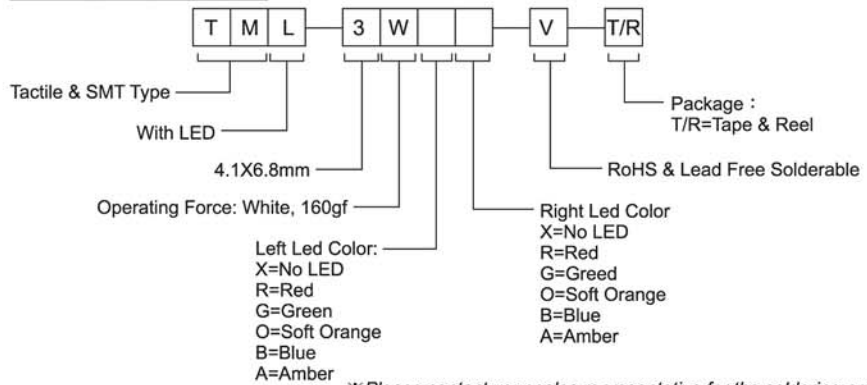
KTL-RA



KTL-SA



HOW TO ORDER



※Please contact your sales representative for the soldering profile.

SPECIFICATION

MECHANICAL

Mechanical Life: 50,000 cycles
Operation Force: 160±50gf
Stroke : 0.25+0.2/-0.1mm

ENVIRONMENTAL

Operation Temperature Range : -20°C to +70°C
Storage Temperature Range : -30°C to +80°C

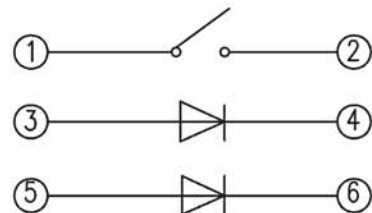
ELECTRICAL

Electrical Life: 50,000 cycles.
Rating: 50mA, 12VDC

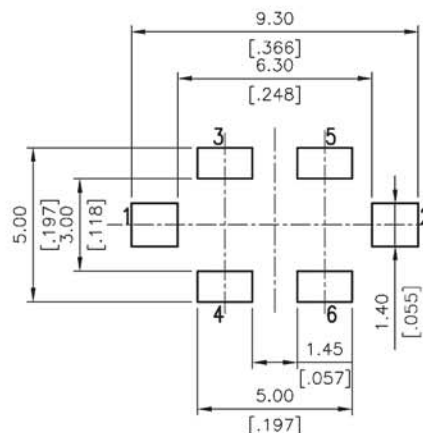
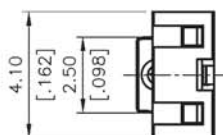
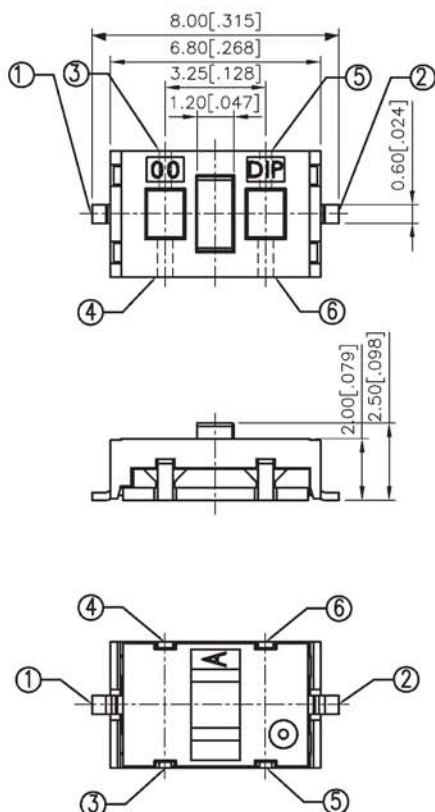
PACKAGE

Tape & Reel: 3000 pcs/reel

CIRCUIT



TML-3

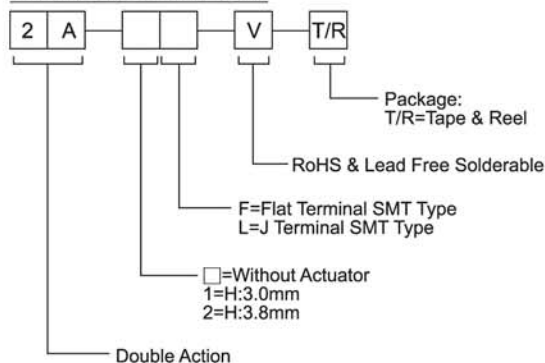


P.C.B. LAYOUT

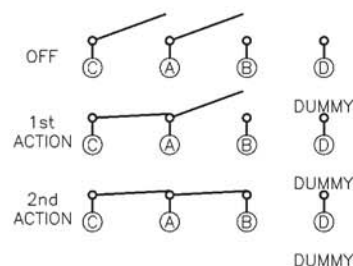
General Tolerance: ±0.2mm(±0.008")



HOW TO ORDER



CIRCUIT



SPECIFICATION

MECHANICAL

Operation Force: 1st $100 \pm 50\text{gf}$
2nd $260+70 / - 50\text{gf}$
Stroke: 1st $0.50+0.10 / - 0.20\text{mm}$
2nd $0.70+0.10 / - 0.30\text{mm}$

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
Storage Temperature Range : -30°C to +80°C

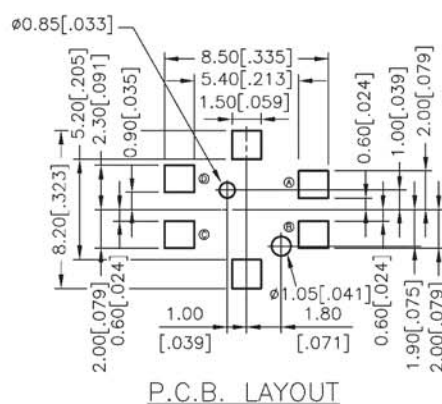
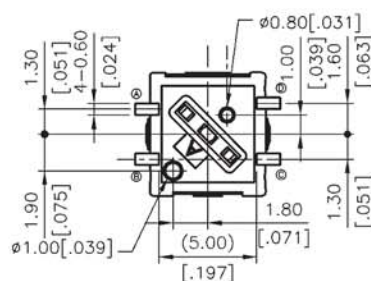
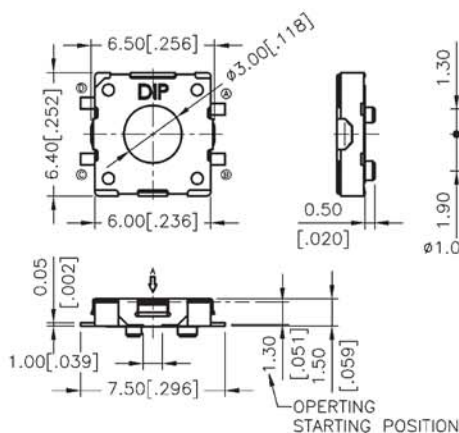
ELECTRICAL

Electrical Life: 30,000 cycles.
Rating: 50mA, 12VDC

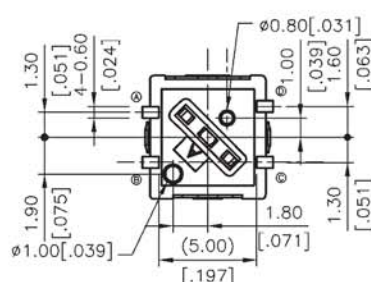
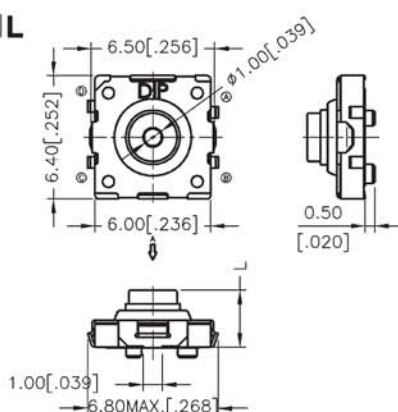
PACKAGE

2A-F(L)-T/R: 3000 pcs/reel
2A-□F(L)-T/R: 2000 pcs/reel

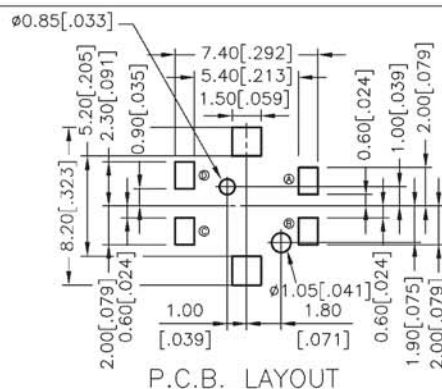
2A-F



2A-□L



2A-2L	3.80[.150]
2A-1L	3.00[.118]
PART NO.	L

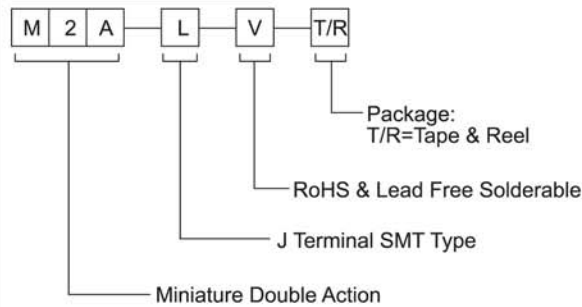


General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 30,000 cycles
Operation Force: 1st 80±40gf
2nd 250±60gf

Stroke: 1st $0.25 \pm 0.1 \text{ mm}$
2nd $0.40 \pm 0.15 \text{ mm}$

ENVIRONMENTAL

Operation Temperature Range : -25° C to +70° C
Storage Temperature Range : -30° C to +80° C

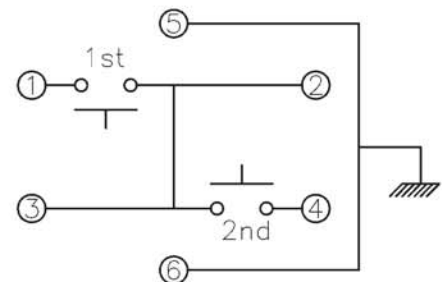
ELECTRICAL

Electrical Life: 30,000 cycles.
Rating: 50mA, 12VDC

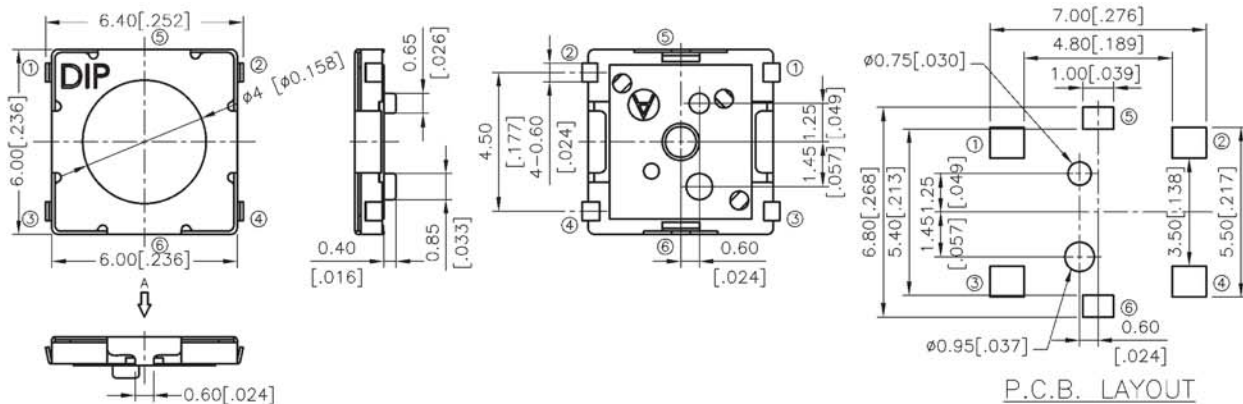
PACKAGE

Tape & Reel: 4000 pcs/reel

CIRCUIT



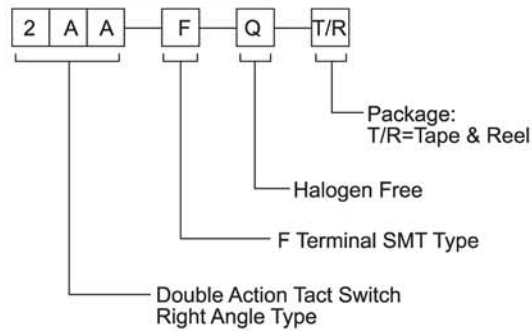
M2A



NEW



HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 100,000 cycles

Operation Force: 1st 150±50gf

2nd 260±80gf

Stroke: 1st 0.45±0.15mm

2nd 0.90±0.15mm

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C

Storage Temperature Range : -30°C to +80°C

ELECTRICAL

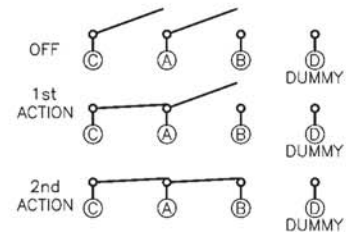
Electrical Life: 100,000 cycles.

Rating: 50mA, 12VDC

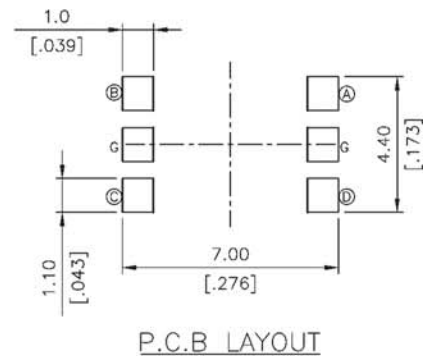
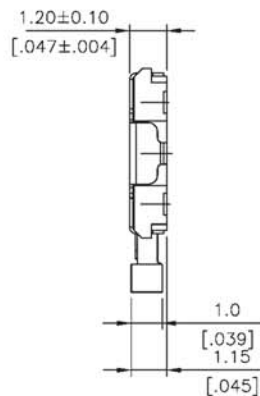
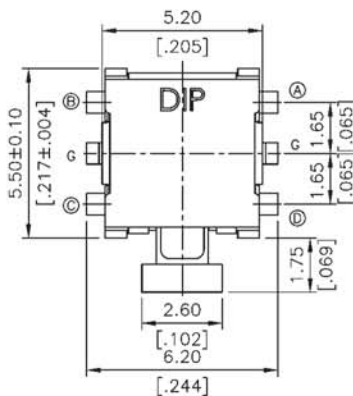
PACKAGE

To be confirmed.

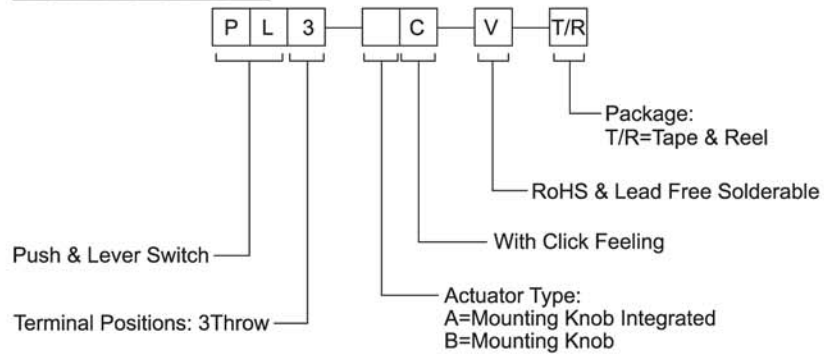
CIRCUIT



2AA



HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force:
Center push 200±100gf.
Lever (CW, CCW) 70±50gf

ENVIRONMENTAL

Operation Temperature Range : -10°C to +60°C
Storage Temperature Range : -30°C to +80°C

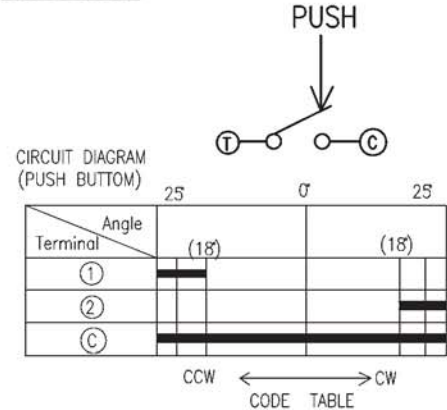
ELECTRICAL

Electrical Life: 100,000 cycles.
Rating: 10mA, 5VDC

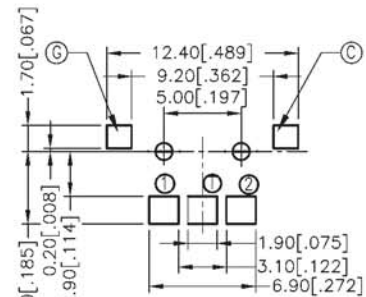
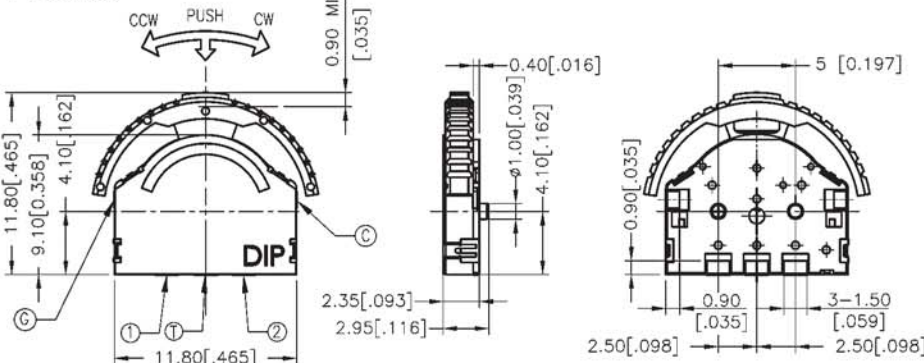
PACKAGE

Tape & Reel: 900 pcs/reel

CIRCUIT

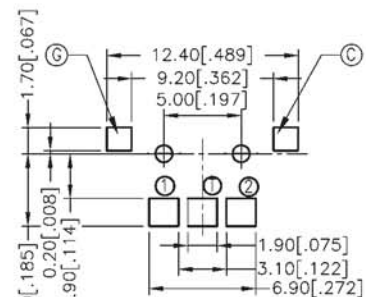
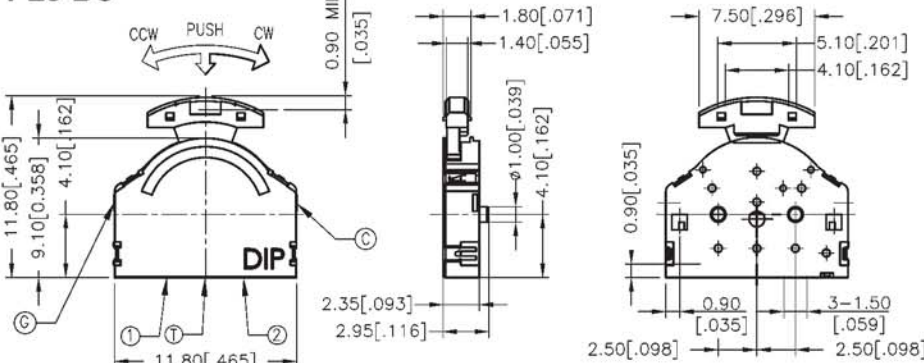


PL3-AC



P.C.B. LAYOUT

PL3-BC

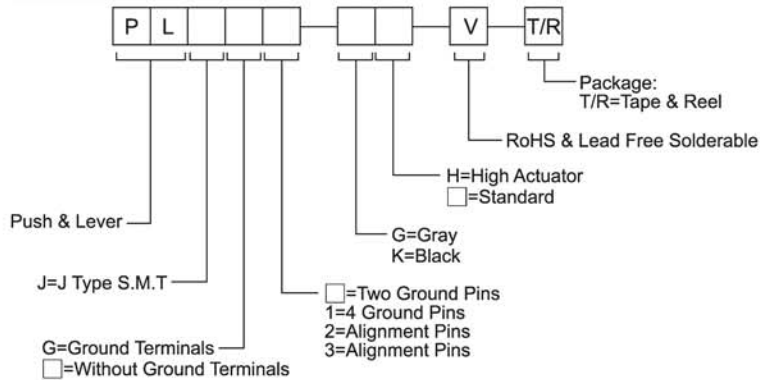


P.C.B. LAYOUT

General Tolerance: ±0.2mm (±0.008")

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Mechanical Life: 100,000 operation cycles
Operation Force:
(A) Force on return actuator
(A) 40±20gf.
(B) Force on center push direction
(B) 150±50gf.

ENVIRONMENTAL

Operation Temperature Range : -10°C to +70°C
Storage Temperature Range : -25°C to +80°C

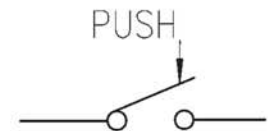
ELECTRICAL

Electrical Life: 100,000 operation cycles
Non-switching Rating: 100mA, 50VDC
Switching Rating: 10mA, 5VDC

PACKAGE

PLJ(G), PLJG1: 1000 pcs/reel
PLJG2: 900 pcs/reel

CIRCUIT

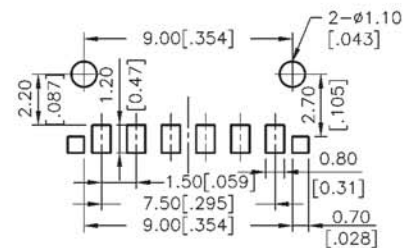
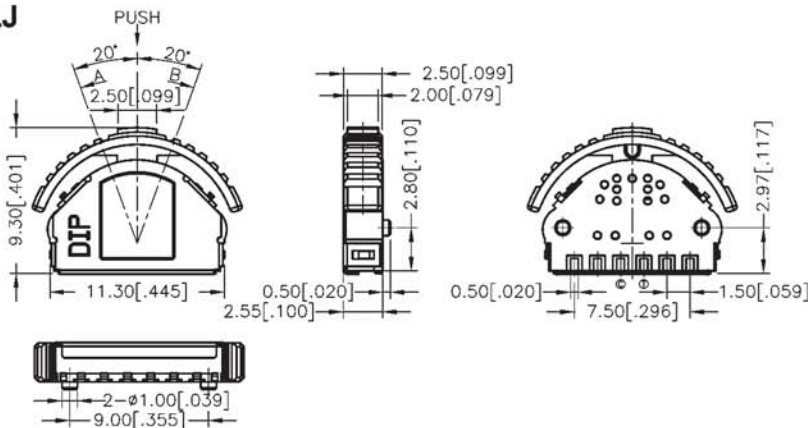


TERMINAL NO.	ANGLE		A		B	
	20°	(16°)	(8°)	(8°)	(16°)	20°
①						
②						
③						
④						
⑤						

* E : ERTHING TERMINAL
* ■ : ON POSITION

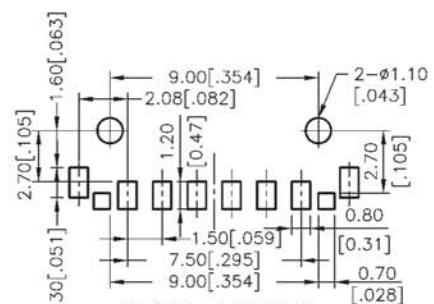
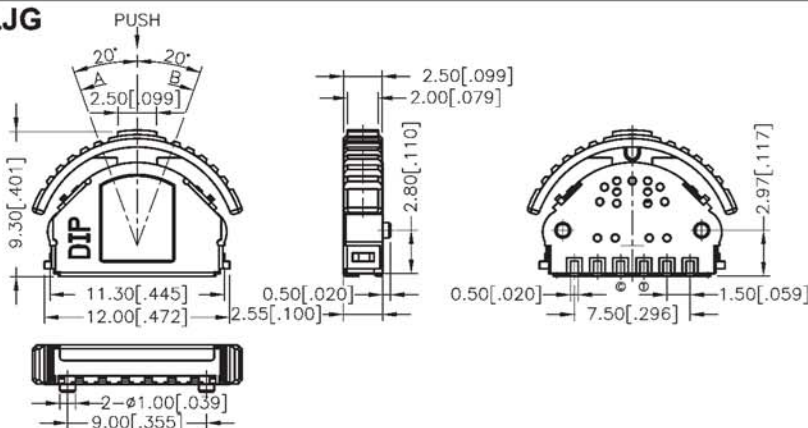
CIRCUIT DIAGRAM

PLJ



P.C.B. LAYOUT

PLJG

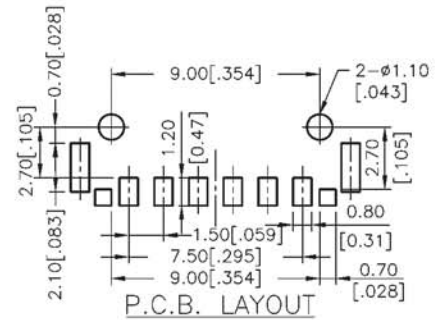
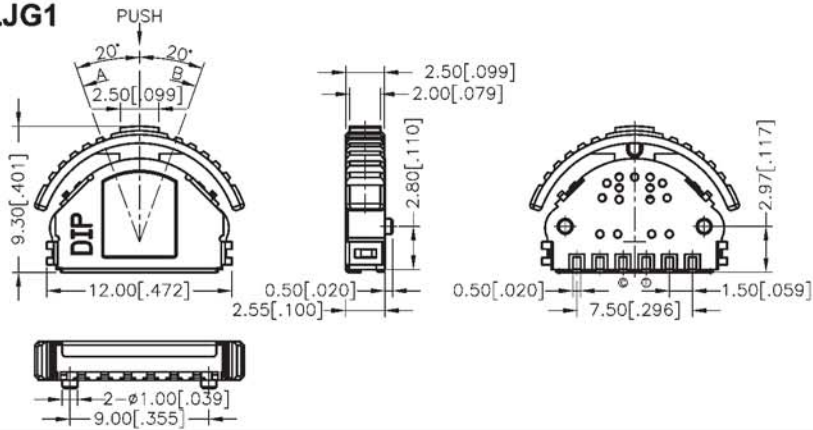


P.C.B. LAYOUT

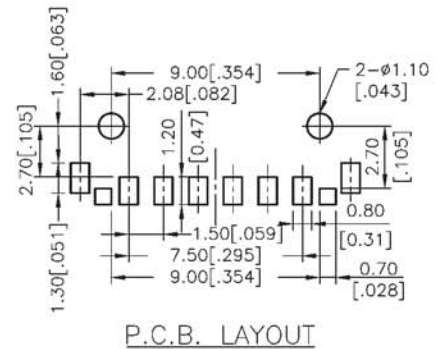
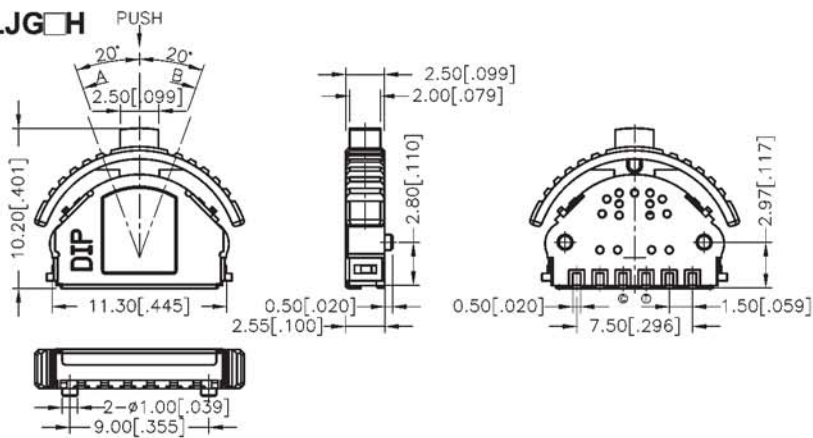
General Tolerance: ±0.2mm(±0.008")

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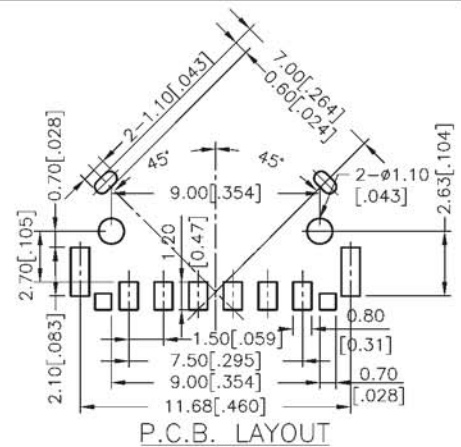
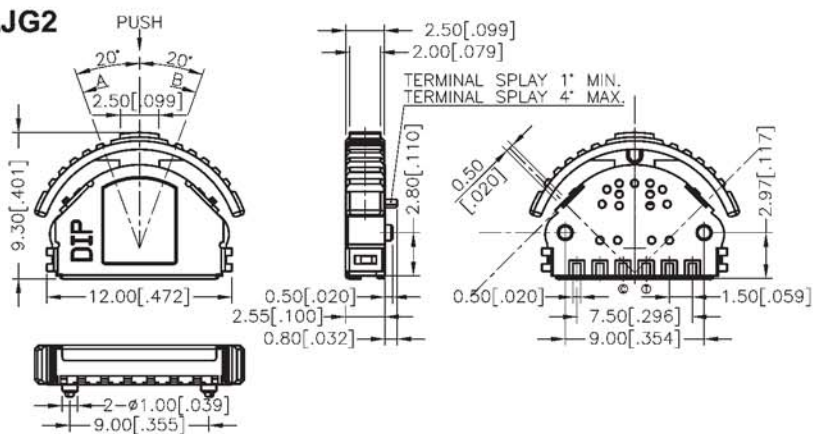
PLJG1



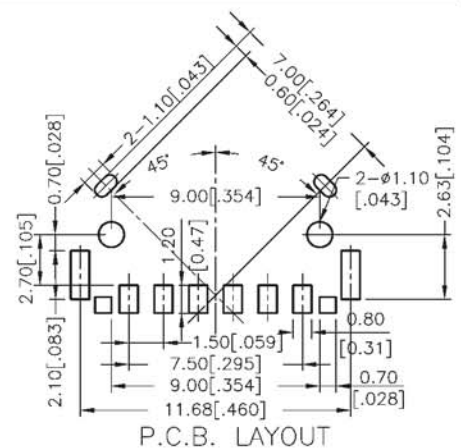
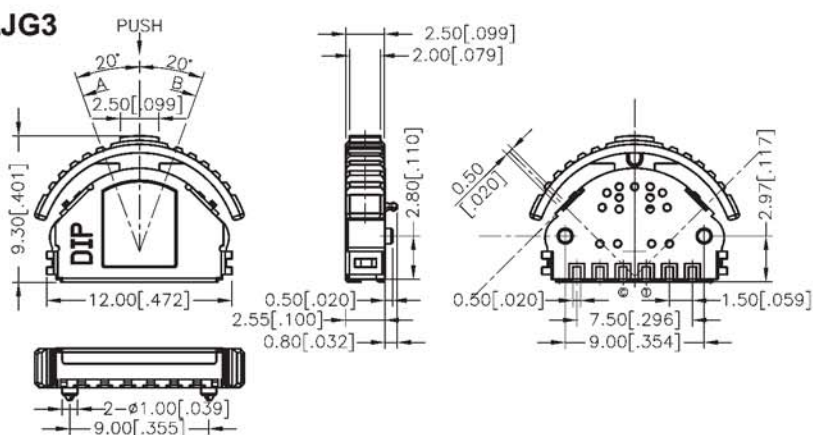
PLJG1H



PLJG2



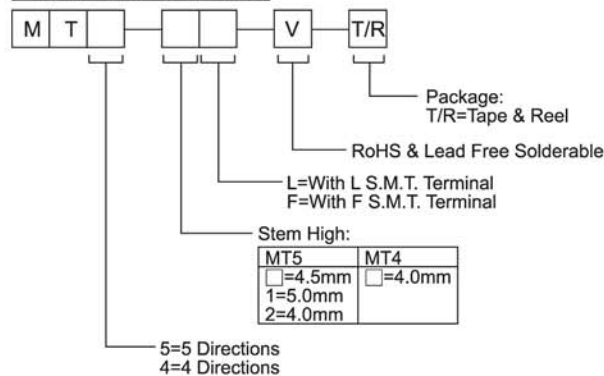
PLJG3



General Tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008''$)

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force:
4-direction: 160gf
Center push: 320gf

Stroke:
4-direction: 5°+2.5°/- 1.5°
Center push: 0.25+0.1/- 0.2 mm

ENVIRONMENTAL

Operation Temperature Range : -25°C to +70°C
Storage Temperature Range : -40°C to +85°C

ELECTRICAL

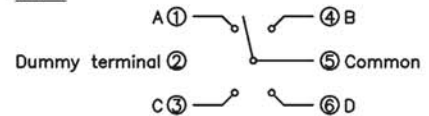
Electrical Life: 100,000 cycles.
Rating: 50mA, 12VDC

PACKAGE

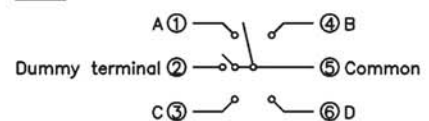
Tape & Reel : 850 pcs/reel

CIRCUIT

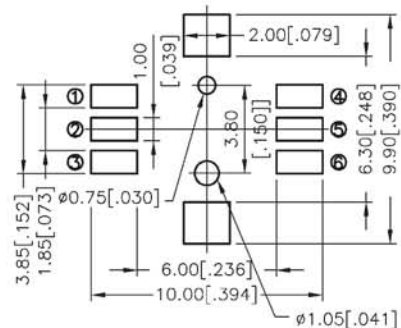
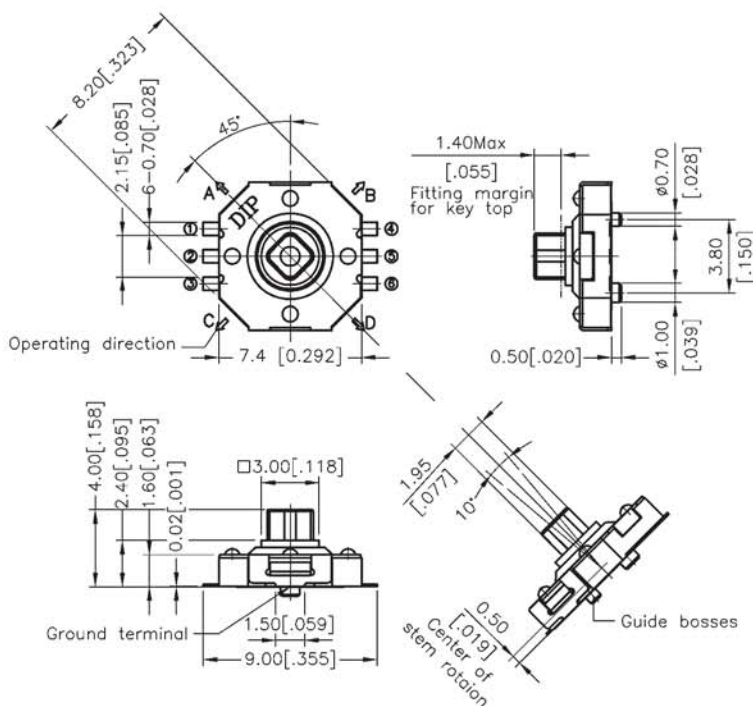
MT4



MT5



MT4-F

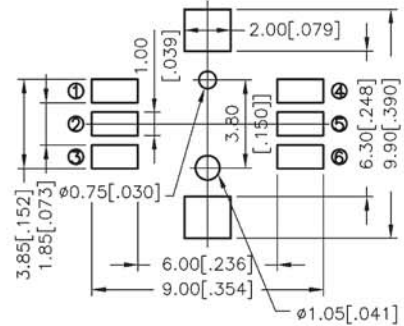
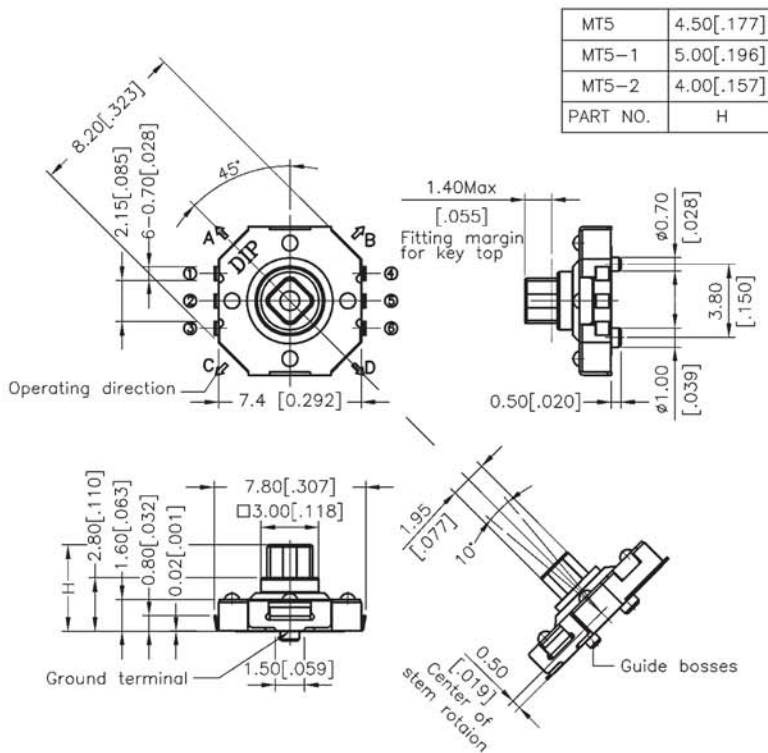


P.C.B. LAYOUT

General Tolerance: ±0.2mm(±0.008")

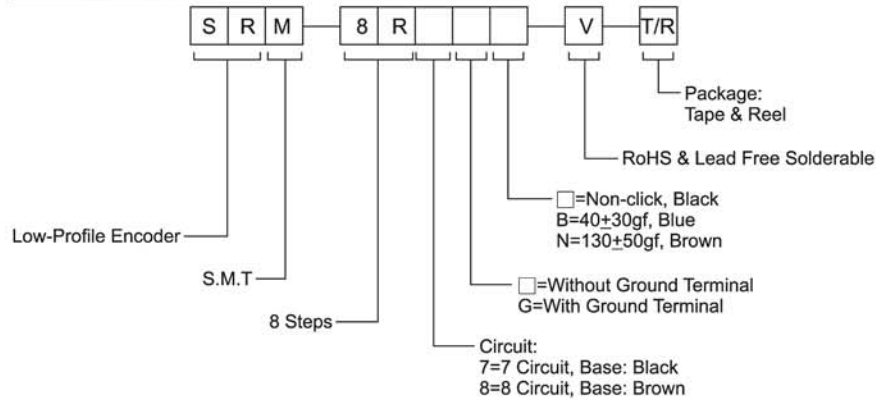
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MT5-L



P.C.B. LAYOUT

HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force: N=130±50gf.
B=40±30gf

ENVIRONMENTAL

Operation Temperature Range : -20°C to +80°C
Storage Temperature Range : -40°C to +85°C

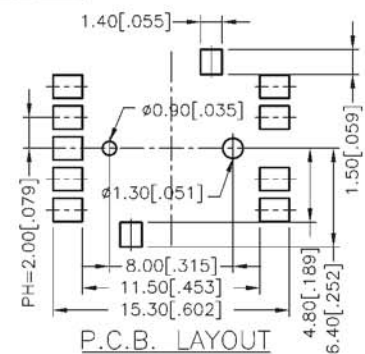
ELECTRICAL

Electrical Life: 10,000 cycles.
Rating: 10mA, 5VDC

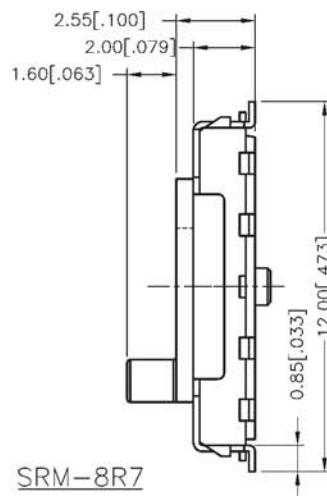
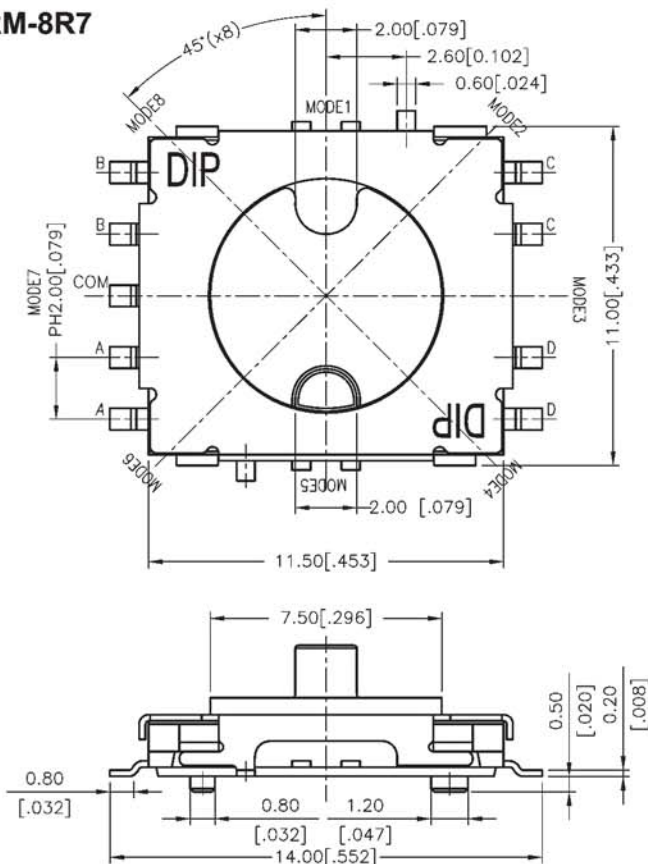
PACKAGE

Tape & Reel: 900 pcs/reel

CIRCUIT



SRM-8R7



SRM-8R7

Changeover Angle

	MODE1	MODE2	MODE3	MODE4	MODE5	MODE6	MODE7	MODE8
COM-A	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
COM-B	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON
COM-C	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
COM-D	OFF	OFF	ON	ON	ON	OFF	OFF	OFF

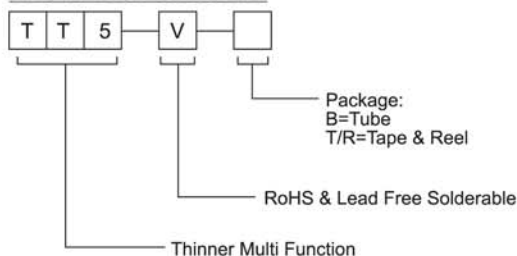
Changeover Timing

	MODE1	MODE2	MODE3	MODE4	MODE5	MODE6	MODE7	MODE8	MODE
	0°	45°	90°	135°	180°	225°	270°	315°	360°
COM-A	ON	OFF	OFF	OFF	ON	ON	ON	ON	ON
COM-B	ON	ON	ON	ON	ON	ON	ON	ON	ON
COM-C	ON	ON	ON	ON	ON	ON	ON	ON	ON
COM-D	ON	ON	ON	ON	ON	ON	ON	ON	ON

General Tolerance: ±0.2mm(±0.008")

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HOW TO ORDER



SPECIFICATION

MECHANICAL

Operation Force:

Side: 180gf±60gf

Center: 320+80/-60gf

Stroke: 0.25±0.15mm.

ENVIRONMENTAL

Operation Temperature Range : -20°C to +70°C

Storage Temperature Range : -40°C to +85°C

ELECTRICAL

Electrical Life: 200,000 cycles.

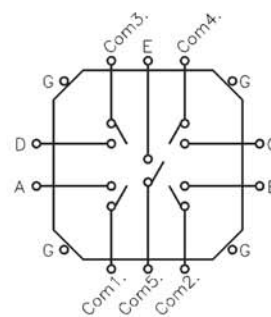
Rating: 50mA, 12VDC

PACKAGE

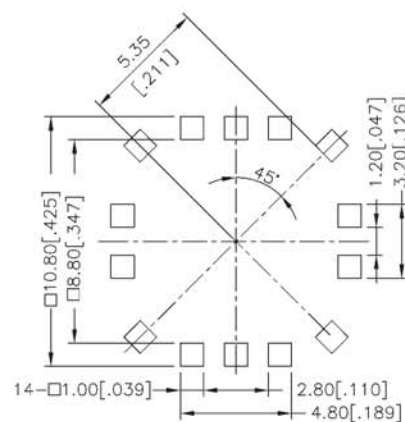
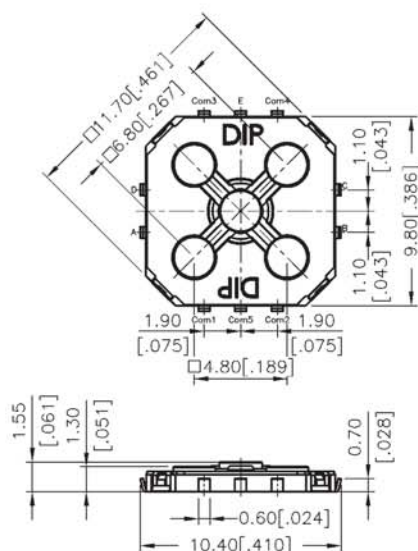
Tube: 47 pcs/tube

Tape and Reel: 2500 pcs/reel

CIRCUIT



TT5



P.C.B. LAYOUT

DIP
SWITCH

Category	Series	Appearance	Features	No. of Poles	Seal Tape	RoHS Compliant	Lead-Free Solderable	Page
DIP SWITCH	DHNF NEW		Half Pitch (H:1.6mm)	2,4,6,8,10	◆	◆	◆	1
	DHN NEW		Half Pitch (H:1.6mm)	2,4,6,8,10	◆	◆	◆	2
	EM(R), EI(R), ES(R)		End Stackable	1-10 , 12	◆	◆	◆	3
	NPI, NPM NEW		Piano type	2,4,6,8,10		◆	◆	6
	EPI, EPM		Piano type End Stackable	2,4,6,8,10	◆	◆	◆	8
	DS(R)		Slide	1-10 , 12	◆	◆	◆	10
	DP(L)		Piano	2-10, 12	◆	◆	◆	11
	DA		Right Angle	2-10, 12	◆	◆	◆	12
	SIP		Single in Line	2,4,6,8,10	◆	◆	◆	13
	TII(R), TIM(R)		Tri-State Low Profile type	4,8,9,10	◆	◆	◆	15
	TDS		Tri-State	4,8,9,10	◆	◆	◆	17
	SV NEW		Rotary 10x10	4	◆	◆	◆	18
	RH, RV, RM, RS		Rotary 10x10	10, 16	◆	◆	◆	19
	R7		Rotary 7x7	10, 16	◆	◆	◆	22

Category	Series	Appearance	Features	Dimensions (mm)	Earth Terminal	RoHS Compliant	Lead-Free Solderable	Page
TACT SWITCH	DTS-2		Through Hole	12.0x12.0		◆	◆	25
	DTSM-2		SMT	12.0x12.0		◆	◆	27
	DTSG(P)-2		Ground Terminal	12.0x12.0	◆	◆	◆	28
	KTSC-2		For 12x12 Tact Switch	Round / Square		◆		29
	TA3		SMT & Right Angle	4.37x6.3	◆	◆	◆	30
	TA(S)-6		Washable	6.1x4.6	◆	◆	◆	31
	DTS-6		Through Hole	6.2x6.2		◆	◆	32
	DTSA-6, DTSG-6		Right Angle	6.55x7.4	◆ DTSG	◆	◆	33
	DTSM(G)-6		SMT	6.2x6.2	◆ DTSMG	◆	◆	34
	DTSU-6		Multiple	6.2x6.2		◆	◆	35
	DTST-6		Radial Taping	6.2x6.2		◆	◆	36
	KTSC-6		For 6x6 Tact Switch	Round / Square		◆		37
	DTSHW-6		Washable	6.2x6.3		◆	◆	38
	DTS(G)MW-6		Washable	6.2x6.3	◆ DTSMW-66	◆	◆	40
	DTSJW-6		Washable	6.2x6.3		◆	◆	42
	TA4 & TH4		Washable	7.0x7.0	◆	◆	◆	44
	DTSYH-6		Thinner pitch 4.5mm	6.2x6.2		◆	◆	45
	DTS(G)ZM(P)-6		Thinner pitch 4.5mm	6.2x6.2	◆	◆	◆	46
	DTS(G)L-6, DTS(G)F-6		Thinner pitch 4.0mm	6.2x6.4	◆	◆	◆	47
	TJ-4		H:0.55 mm	4.4x4.4		◆	◆	48
	TMG-5, TJG-5		H:1.5mm / H:0.8 mm	5.2x5.2	◆	◆	◆	49
	TAC-3, TA(N)2-3		Side Push	4.0x7.3, 4.6x7.0	◆	◆	◆	51
	1188		Side Push	3.5x7.0	◆	◆	◆	53
	DTS-3, DTSM(L)-3		Through Hole, SMT	3.5x6.0		◆	◆	55
	TAE		Vertical Push	3.8x6.0		◆	◆	57
	TMG / TJG-325		Thinner (H:2.5mm)	3.5x6.0	◆	◆	◆	58
	IPT		Side / Vertical Push	2.8x3.8	◆	◆	◆	59
	MPT		Side / Vertical Push	2.9x3.9	◆	◆	◆	60
	PT(C)L, PT(C)F		Side / Vertical Push	3.5x4.7	◆	◆	◆	61
	MTA		H: 1.8mm	2.3x4.5		◆	◆	63
	LTL-6		Long travel 1.3mm	6.2x6.2		◆	◆	65

Category	Series	Appearance	Poles-Positions	No. of Poles	Travel	RoHS Compliant	Lead-Free Solderable	Page
SLIDE SWITCH	SC12P		1-2	1	2.5mm	◆	◆	66
	NSS		1-3	1	2.4mm	◆	◆	67
	SD12 NEW		1-2	1	1.5mm	◆	◆	68
	SE14 NEW		1-4	1	1.5/3.0mm	◆	◆	69
	SSS		1-2	1	2.7mm	◆	◆	70
	LSS		1-2, 2-2	1, 2	2mm	◆	◆	71
	SS3		1-2	1	2mm	◆	◆	73
	SS4		1-3	1	2mm	◆	◆	75
	MSS3, MSS4		1-2, 1-3	1, 2	1.5mm	◆	◆	77
	MSS6, MSS14		2-2, 1-4	1, 2	1.5mm	◆	◆	78
	S2S		1-2, 1-3	1	1.5mm	◆	◆	79

Category	Series	Appearance	Features	Operation Type	Operation Force	RoHS Compliant	Lead-Free Solderable	Page
DETECTOR SWITCH	DTE		Two-way Auto-return	Horizontal	30gf max.	◆	◆	80
	ETE		Wiring Type H: 3.85 mm	Horizontal	50gf max.	◆	◆	81
	FTE		Normal Close Normal Open	Horizontal	50gf max.	◆	◆	82
	TE-MR		H: 2.0mm	Horizontal	40gf max.	◆	◆	85
	TE		H:10.7 mm / 8.4 mm	Vertical	30gf max.	◆	◆	87
	ATE		H:3.8 mm / 5.3 mm	Vertical	40gf max.	◆	◆	89
	BTE		H:2.53 mm	Vertical	50gf max.	◆	◆	91
	CTE		H:3.35 mm	Vertical	35gf max.	◆	◆	93
	TU		H:3.05 mm	Vertical	40gf max.	◆	◆	95

Category	Series	Appearance	Features	Dimensions (mm)	Reflow Soldering	RoHS Compliant	Lead-Free Solderable	Page
MULTI FUNCTION SWITCH	TL(L)-6		LED	6.1x6.1		◆	◆	97
	KTL		For TLL-6 Series	Round / Square		◆		99
	TML-3		LED, SMT	6.8x4.1	◆	◆	◆	100
	2A		Double Action	6.4x6.4	◆	◆	◆	101
	M2A		Miniature Double Action	6.0x6.0	◆	◆	◆	102
	2AA NEW		Double Action	5.5x5.2	◆	◆	◆	103
	PL3		Push & Lever	11.8x11.8	◆	◆	◆	104
	PL		Push & Lever	11.3x9.3	◆	◆	◆	105
	MT4,MT5		4-direction (+ Center Push)	7.7x7.4	◆	◆	◆	107
	SRM		8-way Direction	11x11.5	◆	◆	◆	109
	TT5		5-direction Operation	9.3x9.3	◆	◆	◆	110