

SPECIFICATIONS

RATING: 50mA, 12VDC

ELECTRICAL LIFE: 50,000 cycles for 260gf, 320gf, 520gf,
500,000 cycles for 100gf, 160gf

CONTACT RESISTANCE: 100m Ω max

INSULATION RESISTANCE: 100M Ω min. 500VDC

DIELECTRIC STRENGTH: 250VAC/1 min

OPERATION FORCE: 520 \pm 130gf Yellow (Y)

320 \pm 80gf Salmon (S)

260 \pm 50gf Red (R)

160 \pm 50gf Brown (N)

100 \pm 50gf Black (K)

STORAGE TEMPERATURE: -30 $^{\circ}$ C to +80 $^{\circ}$ C

CONTACT ARRANGEMENT: 1 pole 1 throw

MATERIALS

COVER - Stainless steel.

BASE - UL94V-0 Nylon Thermoplastic(Black)

STEM - UL94V-0 Nylon Thermoplastic

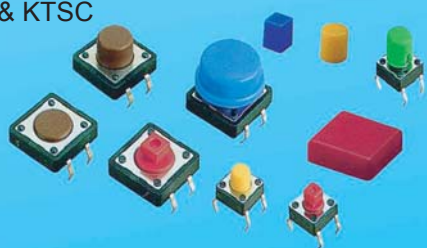
Color : Black(100gf), Brown(160gf),
Red(260gf), Salmon(320gf),
Yellow(520gf)

CONTACT DISC - Phosphor bronze with silver
cladding

TERMINAL - Brass with silver cladding

CAP - Thermoplastic ABS

DTS & KTSC



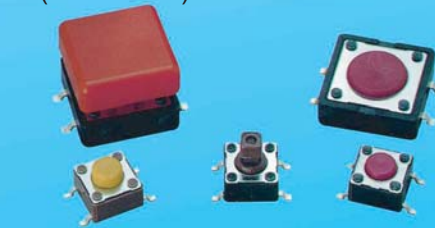
DTSA (RIGHT ANGLE TYPE)



DTSG (GROUND TERMINAL TYPE)



DTSM (SMT TYPE)



HOW TO ORDER

D T S ☐ ☐ - ☐ ☐ ☐ - ☐

Package Style <Only For DTSM>:

B= Tube

T/R=Tape & Reel

Color Of Stem For Operation Force:

▲ K= Black, 100gf N= Brown, 160gf

▲ Y= Yellow, 520gf R= Red, 260gf

S= Salmon, 320gf

<▲12x12, U, K, Y Unavailable>

Dimension H:

CODE		DTSA-6	DTS-6/DTSM-6/DTSG-6
▲(SQ.)x2.4mm	1	3.15 mm	4.3 mm
(SQ.)x2.8mm	2	3.85 mm	5.0 mm
	3	5.85 mm	7.0 mm
	44	6.15 mm	7.3 mm
	48	6.15 mm	7.3 mm
	5	8.35 mm	9.5 mm
	6	11.85 mm	13.0 mm

	DTSG2	DTS-2/DTSM-2
1	4.3 mm	4.3 mm
4	7.3 mm (SQ.) x3.8 mm	7.3 mm (SQ.) x3.8 mm
5		8.5mm

☐ = None Post

▲ P= With Post

<▲Only For 12x12 DTS, DTSG>

Prod Size:

6= 6x6 mm

▲2= 12x12 mm

<▲12x12 DTSA Unavailable>

☐ = Regular Type Tactile Switch

DTSA= Right Angle Type Tactile Switch

DTSG= With Ground Terminal Type Tactile Switch

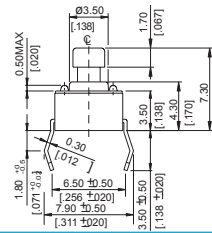
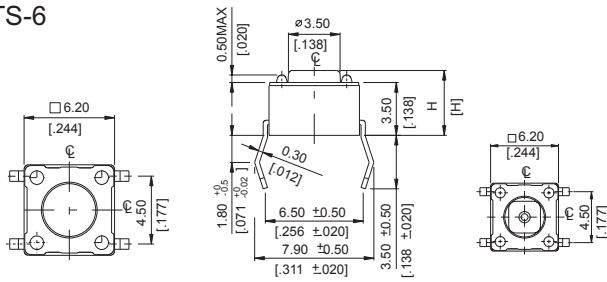
DTSM= SMT Type Tactile Switch



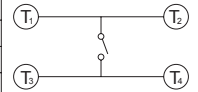
KRS

DTS/ DTSA/ DTSG/ DTSM Tact Switches

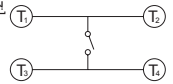
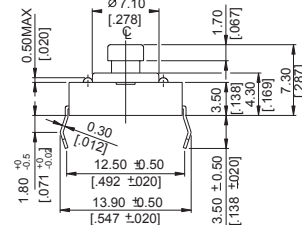
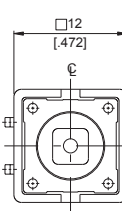
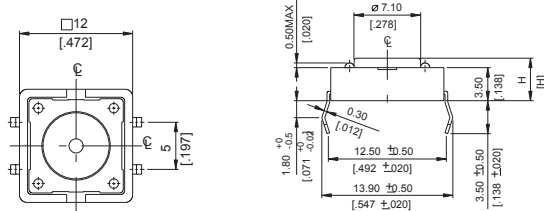
DTS-6



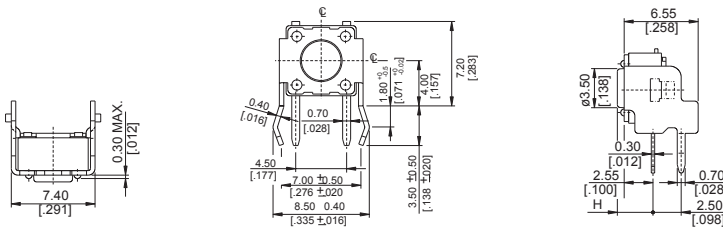
DTS - 66	13.0[.512]
DTS - 65	9.5[.374]
DTS - 64 ⁴	7.3(SQ)[.287]
DTS - 63	7.0[.275]
DTS - 62	5.0[.197]
DTS - 61	4.3[.169]
PROD.	NO. H



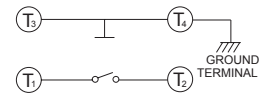
DTS-2



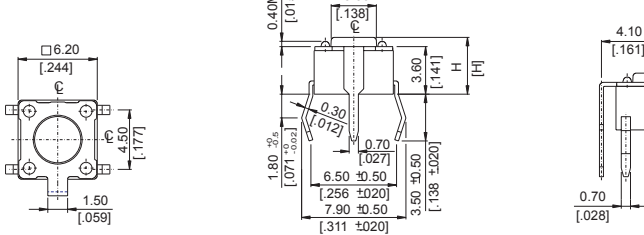
DTSA-6



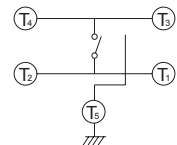
DTSA - 66	11.85[.467]
DTSA - 65	8.35[.329]
DTSA - 64 ⁴	6.15(SQ)[.242]
DTSA - 63	5.85[.230]
DTSA - 62	3.85[.152]
DTSA - 61	3.15[.124]
PROD.	NO. H



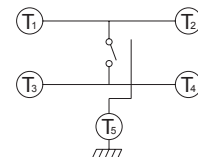
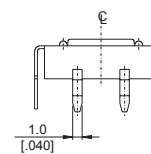
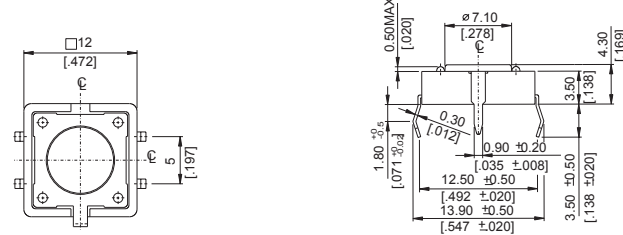
DTSG-6



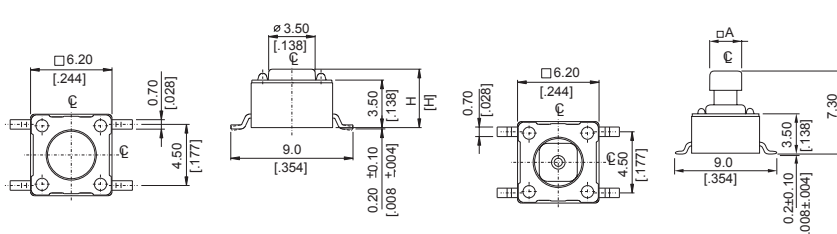
DTSG - 66	13.0[.512]
DTSG - 65	9.5[.374]
DTSG - 64 ⁴	7.3(SQ)[.287]
DTSG - 63	7.0[.275]
DTSG - 62	5.0[.197]
DTSG - 61	4.3[.169]
PROD.	NO. H



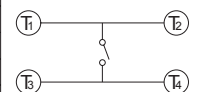
DTSG-2



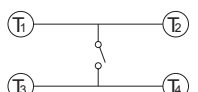
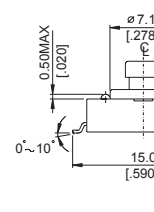
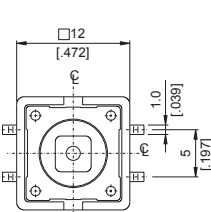
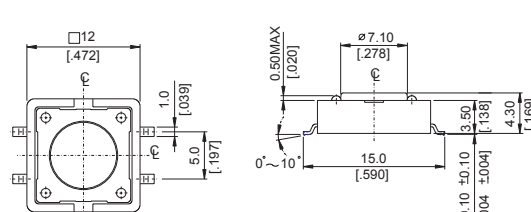
DTSM-6



DTSM - 66	13.0[.512]
DTSM - 65	9.5[.374]
DTSM - 64 ⁴	7.3(SQ)[.287]
DTSM - 63	7.0[.275]
DTSM - 62	5.0[.197]
DTSM - 61	4.3[.169]
PROD.	NO. H



DTSM-2

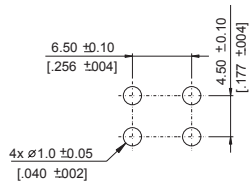


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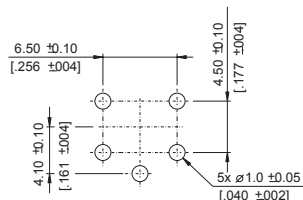
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P.C.B LAYOUT

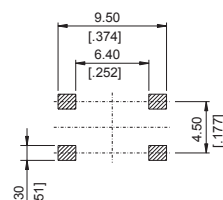
DTS-6



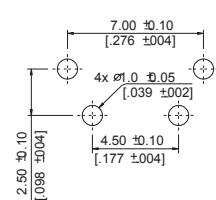
DTSG-6



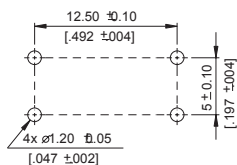
DTSM-6



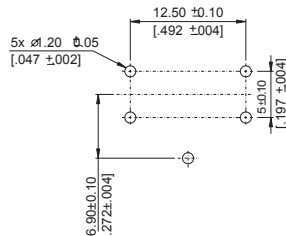
DTSA-6



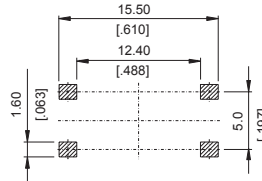
DTS-2



DTSG-2



DTSM-2



SOLDERING PROCESSES

△ WAVE SOLDERING: Recommended solder temperature at 500℃(260℃) max. 5 seconds subject to PCB 1.6mm thickness.

△ HAND SOLDERING: Use a soldering iron of 30 watts, controlled at 608℃(320℃), 2 seconds.

Cap Option:

How to order the Cap:

KTSC - □ □ □

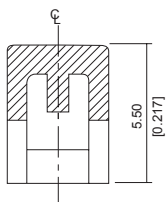
Cap Type:
1= Square
2= Round

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

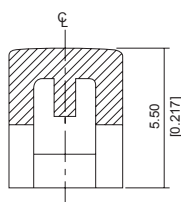
Prod. Size:(Tactile Switch)
6= 6x6 mm
2= 12x12 mm

▲ Only For DTS □ - 644&24,Cap In Bulk Pack

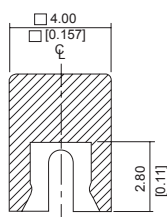
KTSC-6



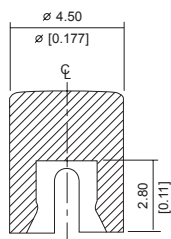
SEC B-B'



SEC B-B'

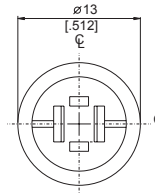
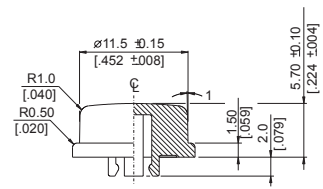
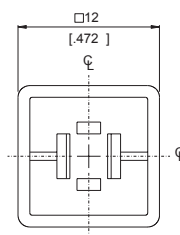
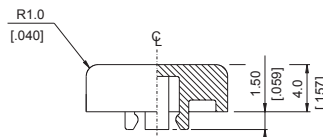


SEC A-A'



SEC A-A'

KTSC-2



SPECIFICATIONS

RATING: 50mA, 12VDC

ELECTRICAL LIFE: 50,000 cycles for 260gf, 320gf, 520gf,
500,000 cycles for 100gf, 160gf

CONTACT RESISTANCE: 100m Ω max

INSULATION RESISTANCE: 100M Ω min. 500VDC

DIELECTRIC STRENGTH: 250VAC/1 min

OPERATION FORCE: 520 \pm 130gf Yellow (Y)

320 \pm 80gf Salmon (S)

260 \pm 50gf Red (R)

160 \pm 50gf Brown (N)

100 \pm 50gf Black (K)

STORAGE TEMPERATURE: -30 $^{\circ}$ C to 80 $^{\circ}$ C

MATERIALS

COVER- Steel.

BASE- UL94V-0 Nylon Thermoplastic(Black)

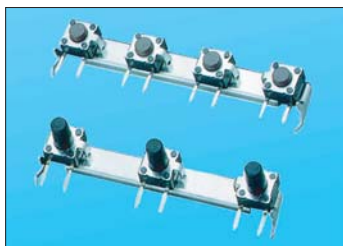
STEM- UL94V-0 Nylon Thermoplastic

Color : Black(100gf), Brown(160gf),Red(260gf)

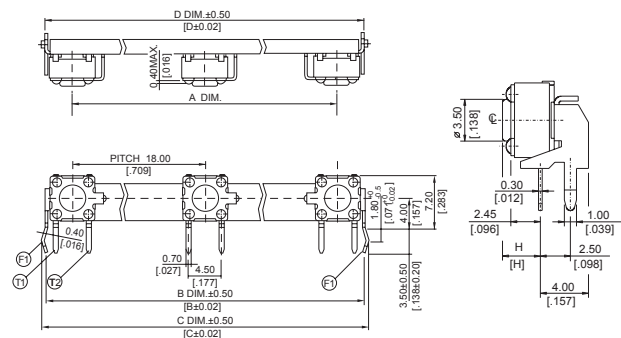
Salmon(320gf), Yellow(520gf)

CONTACT DISC- Phosphor bronze with silver cladding

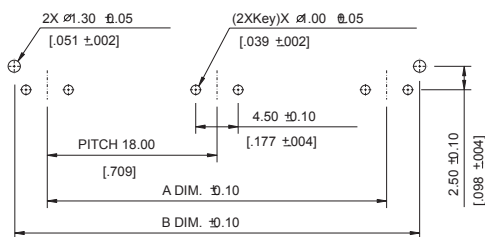
TERMINAL- Brass with silver cladding



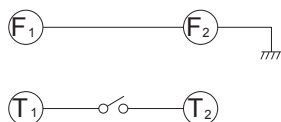
DIMENSIONS



P.C.B. LAYOUT



CIRCUIT



HOW TO ORDER

D T S U - 6 ☐ ☐ ☐ - ☐ ☐

QTY Of Keys:

Kind Of Pitch:

1= 10 mm

2= 15 mm

3= 18 mm

4= 20 mm

5= 14 mm

0= 2 Keys

1= 3 Keys

2= 4 Keys

3= 6 Keys

4= 7 Keys

5= 5 Keys

Color Of Stem For Operating Force:

K= Black, 100gf

N= Brown, 160gf

R= Red, 260gf

S= Salmon, 320gf

Y= Yellow, 520gf

Dimension H:

1= 3.15mm [.124]

2= 3.85mm [.152]

3= 5.85mm [.230]

4= 6.15mm(SQ.) [.242] x 2.4mm

48= 6.15mm(SQ.) [.242] x 2.8mm

5= 8.35mm [.329]

6= 11.85mm [.467]

Multiple Type Tactile Switch

SOLDERING PROCESSES

Δ WAVE SOLDERING: Recommended solder temperature at 500 $^{\circ}$ F(260 $^{\circ}$ C) max.
5 seconds subject to PCB 1.6mm thickness.

Δ HAND SOLDERING: Use a soldering iron of 30 watts, controlled at 608 $^{\circ}$ F(320 $^{\circ}$ C) approximately 2 seconds while applying solder

MODELS

KIND OF PITCH	10						14						15						18						20					
QTY OF KEYS	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7
A DIM	10	20	30	40	50	60	14	28	42	56	70	84	15	30	45	60	75	100	18	36	54	72	90	108	20	40	60	80	100	120
B DIM	17	27	37	47	57	67	22	36	50	64	78	92	22	37	52	67	82	97	25	43	61	79	97	115	27	47	67	87	107	127
C DIM	18.7	28.7	38.7	48.7	58.7	68.7	23.5	37.5	51.5	65.5	79.5	93.5	23.7	38.7	53.7	68.7	83.7	98.7	26.7	44.7	62.7	80.7	98.7	116.7	28.7	48.7	68.7	88.7	108.7	128.7
D DIM	17.4	27.4	37.4	47.4	57.4	67.4	22.4	36.4	50.4	64.4	78.4	92.4	22.4	37.4	52.4	67.4	82.4	97.4	25.4	43.4	61.4	79.4	97.4	115.4	27.4	47.4	67.4	87.4	107.4	127.4

SPECIFICATIONS

RATING: 50mA, 12VDC

ELECTRICAL LIFE: 50,000 cycles for 160gf, 320gf,

CONTACT RESISTANCE: 100m Ω max

INSULATION RESISTANCE: 100M Ω min. 500VDC

DIELECTRIC STRENGTH: 250VAC/1 min

OPERATION FORCE : 320+80gf Salmon (S)

160+50gf Brown (N)

STORAGE TEMPERATURE: -30 $^{\circ}$ C to +80 $^{\circ}$ C

CONTACT ARRANGEMENT: 1 pole 1 throw

MATERIALS

COVER - Stainless steel.

BASE - UL94V-0 Nylon or PPA High-Temp.

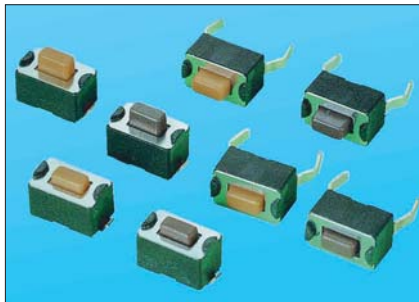
Thermoplastic (BLACK)

STEM - UL94V-0 Nylon High-Temp. Thermoplastic

Color : Brown(160gf), Salmon(320gf)

CONTACT DISC - Stainless with silver cladding

TERMINAL - Brass with silver cladding



HOW TO ORDER

DTS ☐ - ☐ ☐ ☐ - ☐

DTS= Tactile Switch

M: Surface Mounting Type

☐: Through Hole Type

L : Flat Terminal

Prod. SIZE: 3= 3.5 X 6

Dimension H:

1= 4.3mm

2= 5.0mm

Package:

B: Tube Package

R: T/ R Tape & Reel

For DTSM

Color of Stem for

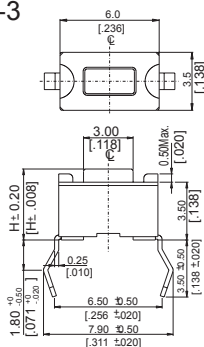
Operating Force:

N= Brown, 160g

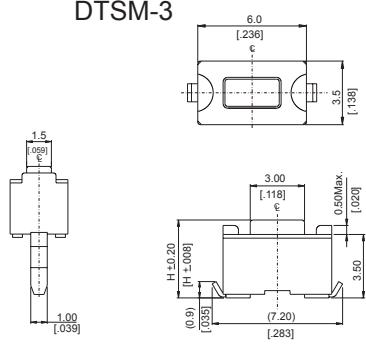
S= Salmon, 320g

DIMENSIONS

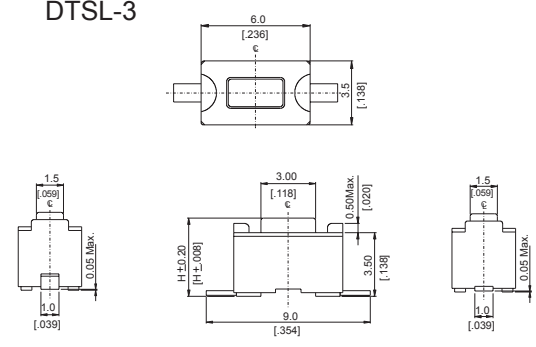
DTS-3



DTSM-3

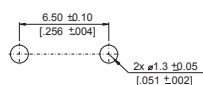


DTSL-3

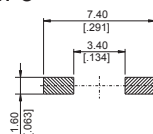


P.C.B. LAYOUT

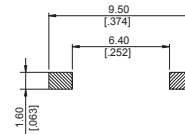
DTS-3



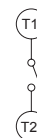
DTSM-3



DTSL-3



CIRCUIT



SOLDERING PROCESSES

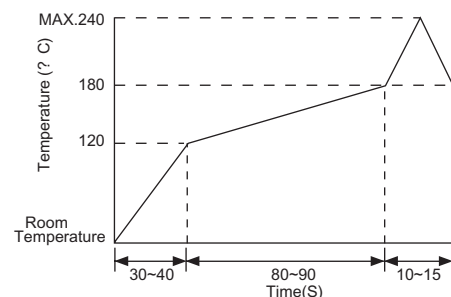
△ HAND SOLDERING: Use a soldering iron of 30 watts, controlled at 608 $^{\circ}$ F(320 $^{\circ}$ C) approximately 2 seconds

△ REFLOW SOLERING: When applying reflow soldering, the peak temperature or the reflow oven should be set to 240 $^{\circ}$ C max.

△ Condition for soldering (Reflow & Non- washable type)
Temperature Profile:

△ WAVE SOLDERING: Recommended solder temperature at 500 $^{\circ}$ F(260 $^{\circ}$ C) max. 5 seconds, for through hole type. Subject to P.C.B. 1.6mm thickness.

△ Reflow temperature profile:



SPECIFICATIONS

ELECTRICAL LIFE : 500,000 cycles min, for
DTS□W-69N(R), 67N(R), 65N(R)
100,000 cycles min. for
DTS□W-66N, 68S

CONTACT RESISTANCE: 100m Ω max

INSULATION RESISTANCE: 100M Ω min. 500VDC

DIELECTRIC STRENGTH: 250VAC/1 min

OPERATION FORCE:

260 \pm 50gf, Red(R), DTS□W-65, 67, 69

160 \pm 50gf, Brown(N), DTS□W-66

180 \pm 50gf, Brown(N), DTS□W- 65, 67, 69

160 \pm 50gf, Silver(S), DTS□W-68S

STORAGE TEMPERATURE: -30 $^{\circ}$ C to +80 $^{\circ}$ C

CONTACT ARRANGEMENT: 1 pole 1 throw

MATERIALS

COVER - Stainless steel.

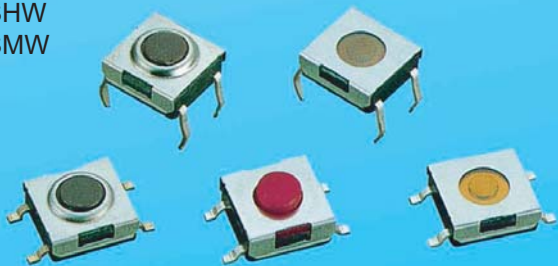
BASE - UL94V-0 PPA High-Temp. Thermoplastic(Black)

CONTACT DISC - Phosphor bronze with silver cladding

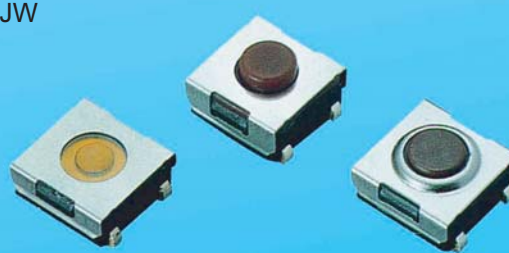
TERMINAL - Brass with silver cladding

ITEM NO.	DTSMW-66N DTSHW-66N	DTSMW-68S DTSHW-68S	DTS(H)MW- 69,67,65N (R)
STEM	High- Temp. Thermoplastic Nylon UL 94V-0 Color: Brown(N), 160gf	None	None
ADHESIVE TAPE	Resin-based	Resin-Based	None
METAL STEM	Brass with Nickel plated	Brass with Nickel Plated Color: Silver (S), 160gf	None
SEALED RUBBER	None	None	Silicone Rubber

DTSHW
DTSMW

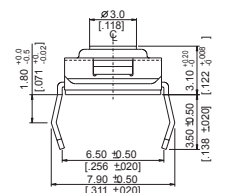
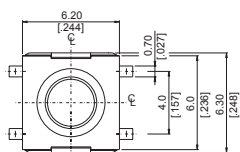


DTSJW

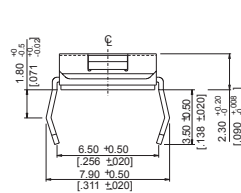
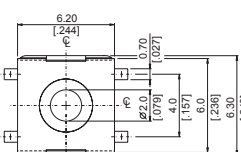


DIMENSIONS

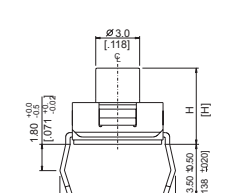
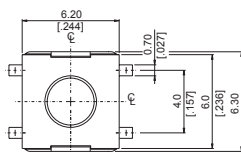
DTSHW-66



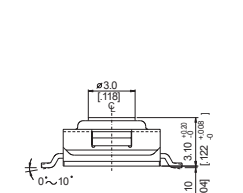
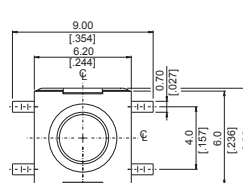
DTSHW-68



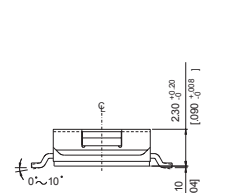
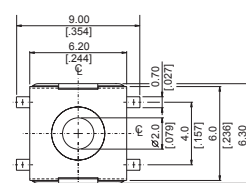
DTSHW-69,67,65



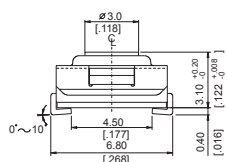
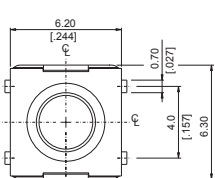
DTSMW-66



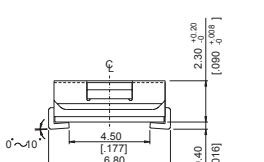
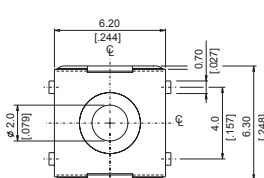
DTSMW-68



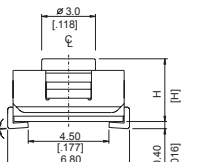
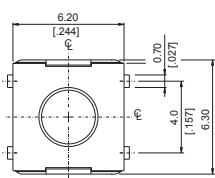
DTSJW-66



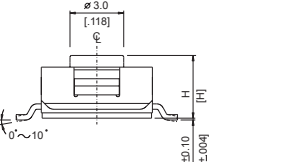
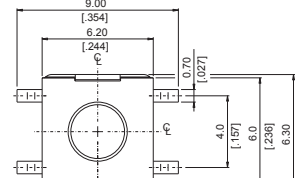
DTSJW-68



DTSJW-69,67,65



DTSMW-69,67,65



HOW TO ORDER

D T S ☐ W - ☐ ☐ ☐ - ☐

Package Style:
B= Tube
T/R= Tape & Reel

Color of Stem For Operating Force:
▲N= Brown, 160gf(66N),
180gf(69N, 67N & 65N)
S= Salmon, 160gf
R= Red, 260gf

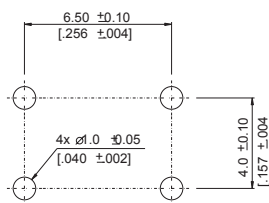
Dimension H:
66= 3.1mm (N)
68= 2.3mm (S)
69= 3.8mm (N, R)
67= 5.2mm (N,R)
65= 3.5mm (N,R)

H= Through Hole Terminals
M= Surface Mounting Terminals
J = J Type Surface Mounting

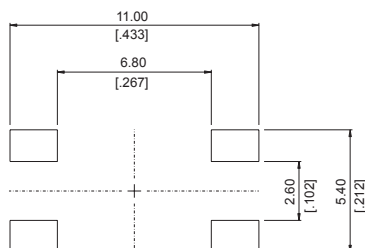
P.C.B. LAYOUT

CIRCUIT

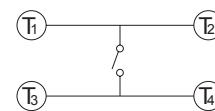
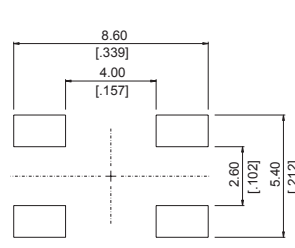
DTSHW-6



DTSMW-6

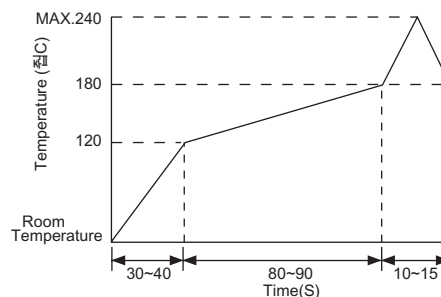


DTSJW-6



SOLDERING PROCESSES

- △ WAVE SOLDERING: Recommended solder temperature at 500℃(260℃) max. 5 seconds, subject to P.C.B. 1.6mm thickness. (Soldering for through hole type)
- △ HAND SOLDERING: Use a soldering iron of 30 watts, controlled at 608℃(320℃) approximately 2 seconds while applying solder.
- △ SOLDERING: Vapor phase & IR-reflow soldering can be applied.
- △ Condition for soldering (Reflow & washable type)
Temperature Profile:



SPECIFICATIONS

RATING: 50mA, 12VDC

ELECTRICAL LIFE: 50,000 cycles for 260gf, 320gf, 520gf,
500,000 cycles for 100gf, 160gf

CONTACT RESISTANCE: 100m Ω max

INSULATION RESISTANCE: 100M Ω min. 500VDC

DIELECTRIC STRENGTH: 250VAC/1 min

OPERATION FORCE: 520 \pm 130gf Yellow (Y)

320 \pm 80gf Salmon (S)

260 \pm 50gf Red (R)

160 \pm 50gf Brown (N)

100 \pm 50gf Black (K)

STORAGE TEMPERATURE: -30 $^{\circ}$ C to +80 $^{\circ}$ C

CONTACT ARRANGEMENT: 1 pole 1 throw

MATERIALS

COVER - Stainless steel.

BASE - UL94V-0 Nylon Thermoplastic(Black)

STEM - UL94V-0 Nylon Thermoplastic

Color: Black(100gf), Brown(160gf),Red(260gf)

Salmon(320gf), Yellow(520gf)

CONTACT DISC - Phosphor bronze with silver cladding

TERMINAL - Brass with silver cladding

HOW TO ORDER

DTS ☐ L - 6 ☐

Color Of Stem For Operating Force:

K= Black, 100gf

N= Brown, 160gf

R= Red, 260gf

S= Salmon, 320gf

Y= Yellow, 520gf

Total Height

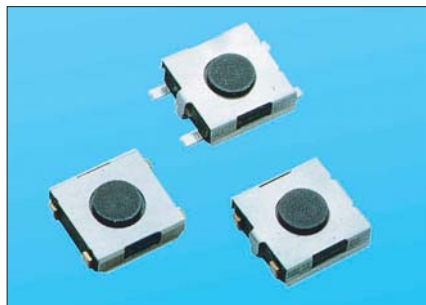
1= 2.5mm

Prod. Series: _____

G= With Ground Terminal

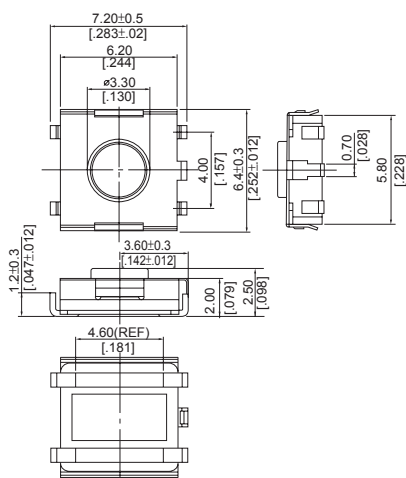
☐= Without Ground Terminal

L= With L S.M.T Terminal

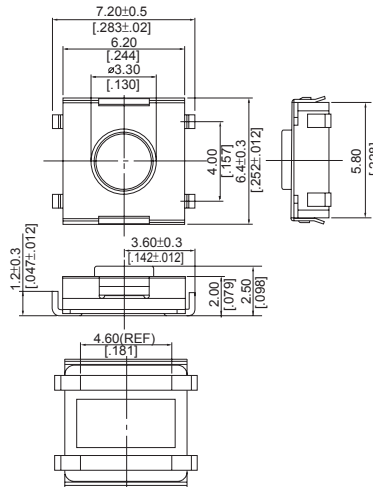


DIMENSIONS

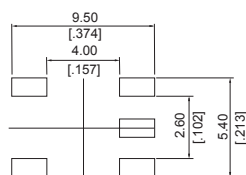
DTSG-61



DTSL-61

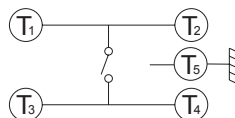


P.C.B LAYOUT

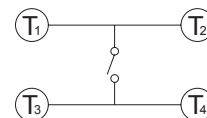


CIRCUIT

DTSG-6



DTSL-6

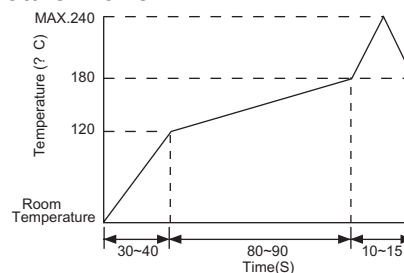


SOLDERING PROCESSES

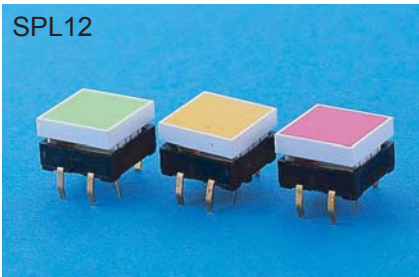
HAND SOLDERING: Use a soldering iron of 30 watts, controlled at 608 $^{\circ}$ F(320 $^{\circ}$ C) approximately 2 seconds while applying solder.

REFLOW SOLDERING: When applying reflow Soldering, the peak temperature or the reflow Oven should be set to 240 $^{\circ}$ Cmax.

Condition for soldering (Reflow & Non-washable Type)
Temperature Profile:

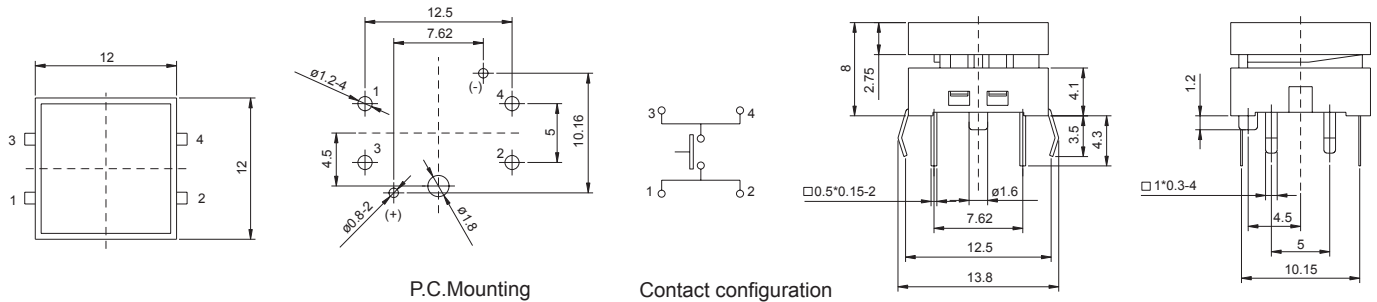


SPL12

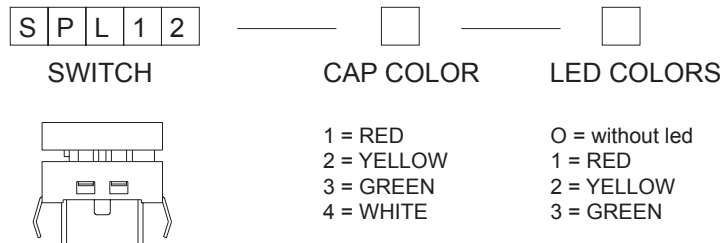


SPECIFICATIONS

CIRCUIT: SPST
 CONTACT RATING: 50mA @ 12 VDC
 LED RATING: 30mA @ 5V
 CONTACT RESISTANCE: 100m Ω Max (initial)
 INSULATION RESISTANCE: 100M Ω min
 OPERATING FORCE: 250gf \pm 50gf
 TOTAL TRAVEL: 0.3mm \pm 0.1mm
 OPERATING LIFE: 100,000 cycles min.
 OPERATING TEMPERATURE: +10 $^{\circ}$ C~+60 $^{\circ}$ C



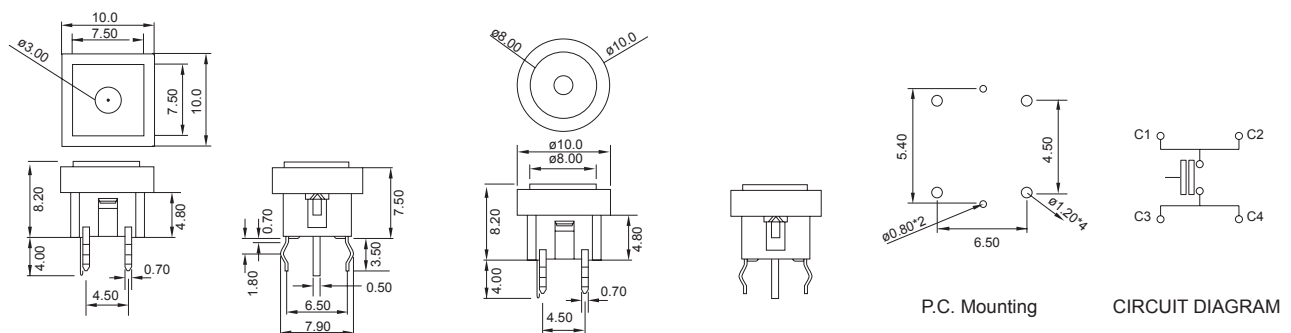
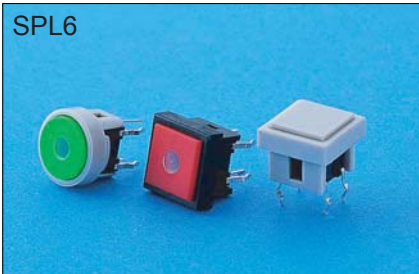
HOW TO ORDER



SPECIFICATIONS

CIRCUIT: SPST
 CONTACT RATING: 50mA
 VOLTAGE RATING: 12 VDC
 DIELECTRIC WITH STANDARDING VOLTAGE: 250 VAC for 1 minute
 CONTACT RESISTANCE: 100m Ω max (initial)
 INSULATION RESISTANCE: 100M Ω min
 OPERATING FORCE: 160gf \pm 30gf
 OPERATING LIFE: 100,000 cycles min.
 SOLDERING SPECIFICATION: 265 $^{\circ}$ C for 5 seconds

SPL6



HOW TO ORDER

