



Speed & Technique

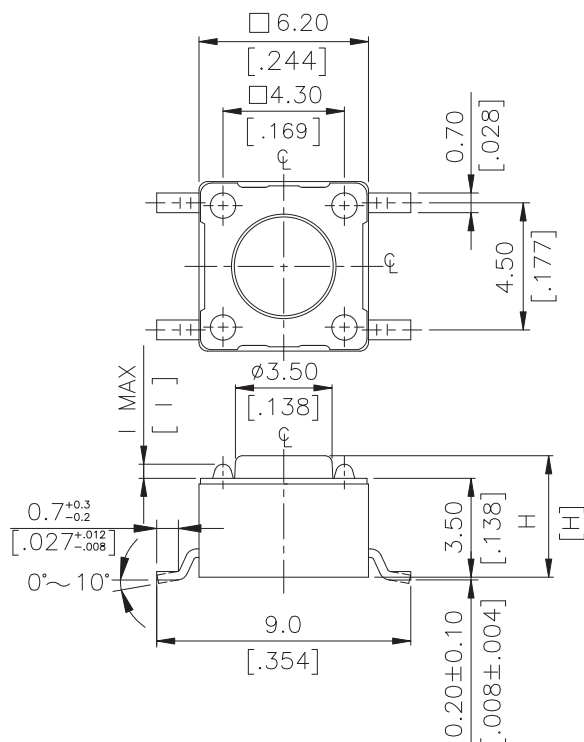
DIPTRONICS MANUFACTURING INC.

DTSM(G)-6(2) SERIES

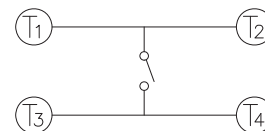


DIMENSIONS

DTSM-6



P.C.B. LAYOUT



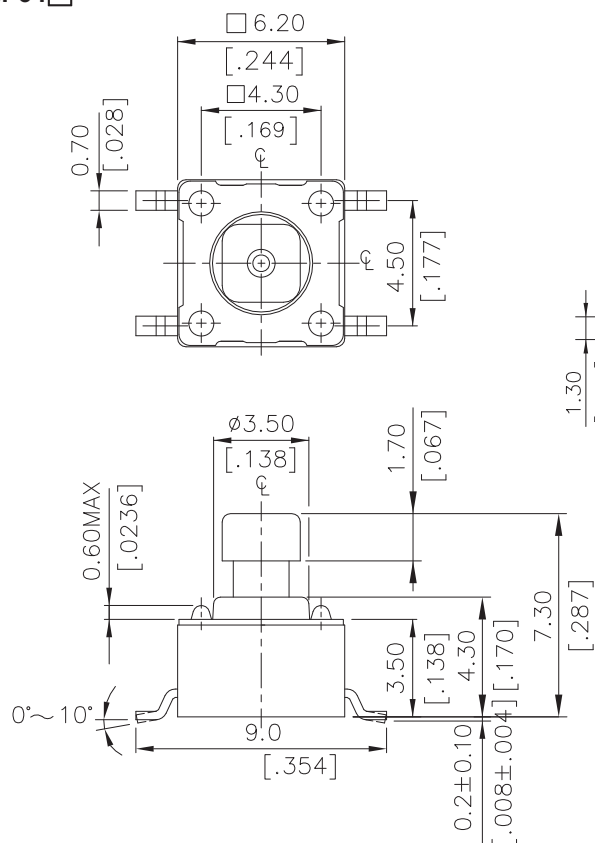
CIRCUIT DIAGRAM

DTSM-62~66□-V	0.6 MAX	.0236MAX
DTSM-61□-V	0.5 MAX	.0197MAX
PROD. NO.	I	INCHES.

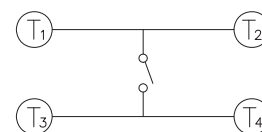
DTSM-66 □ -V	13.0[.512]
DTSM-65 □ -V	9.5[.374]
DTSM-63 □ -V	7.0[.275]
DTSM-62 □ -V	5.0[.197]
DTSM-61 □ -V	4.3[.169]
PROD. NO.	H

General Tolerance : ±0.2mm

DTSM-64□



P.C.B. LAYOUT



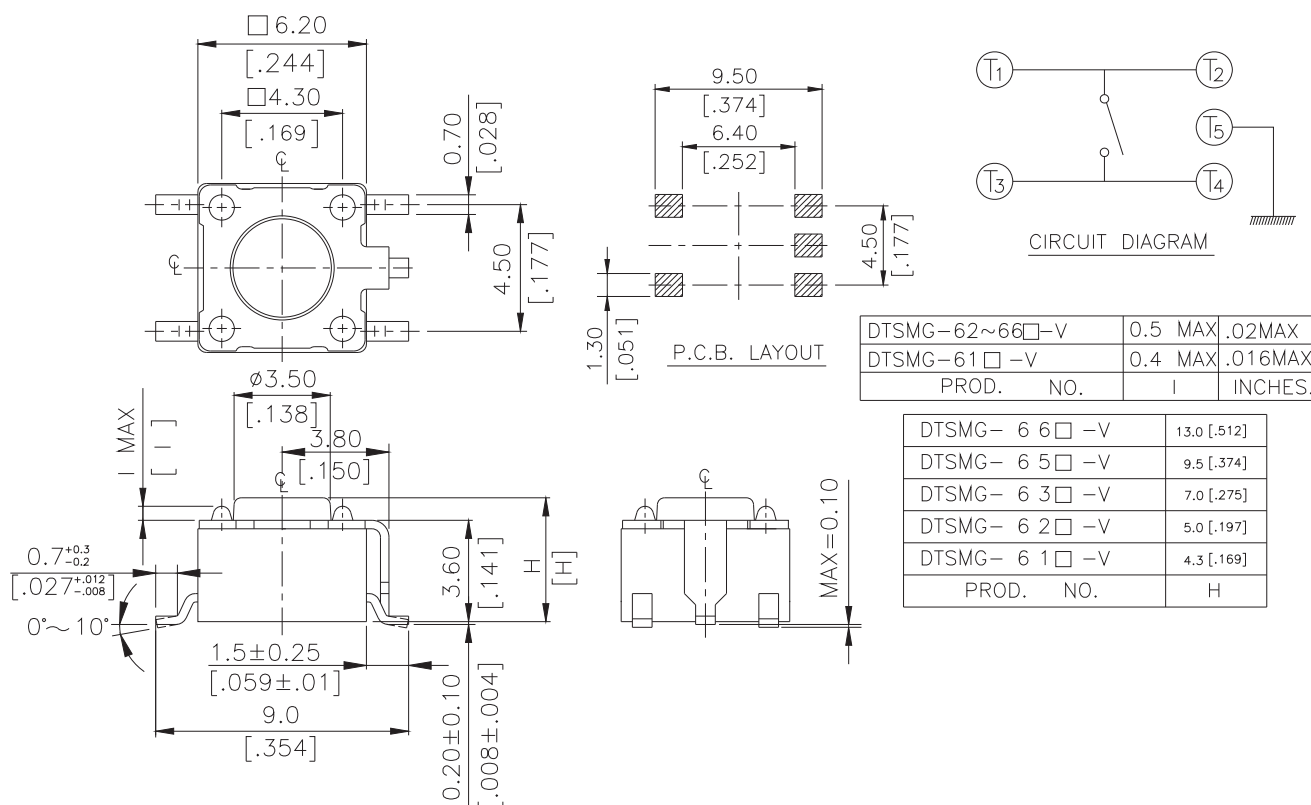
CIRCUIT DIAGRAM

DTSM-644□-V	□A	2.4	[.095]
	□B	1.6	[.063]
DTSM-648□-V	□A	2.8	[.110]
	□B	2.0	[.079]
PROD. NO.	LOC.	MM.	INCH.

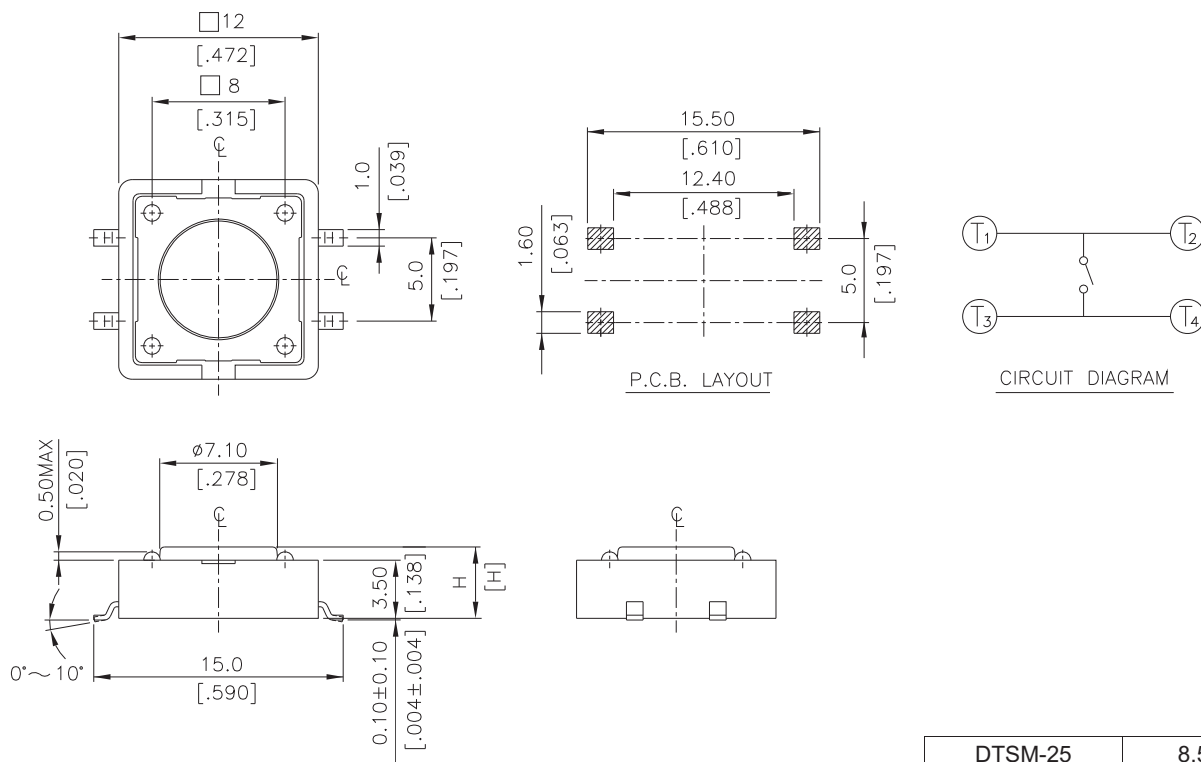
DIMENSION

General Tolerance : ±0.2mm

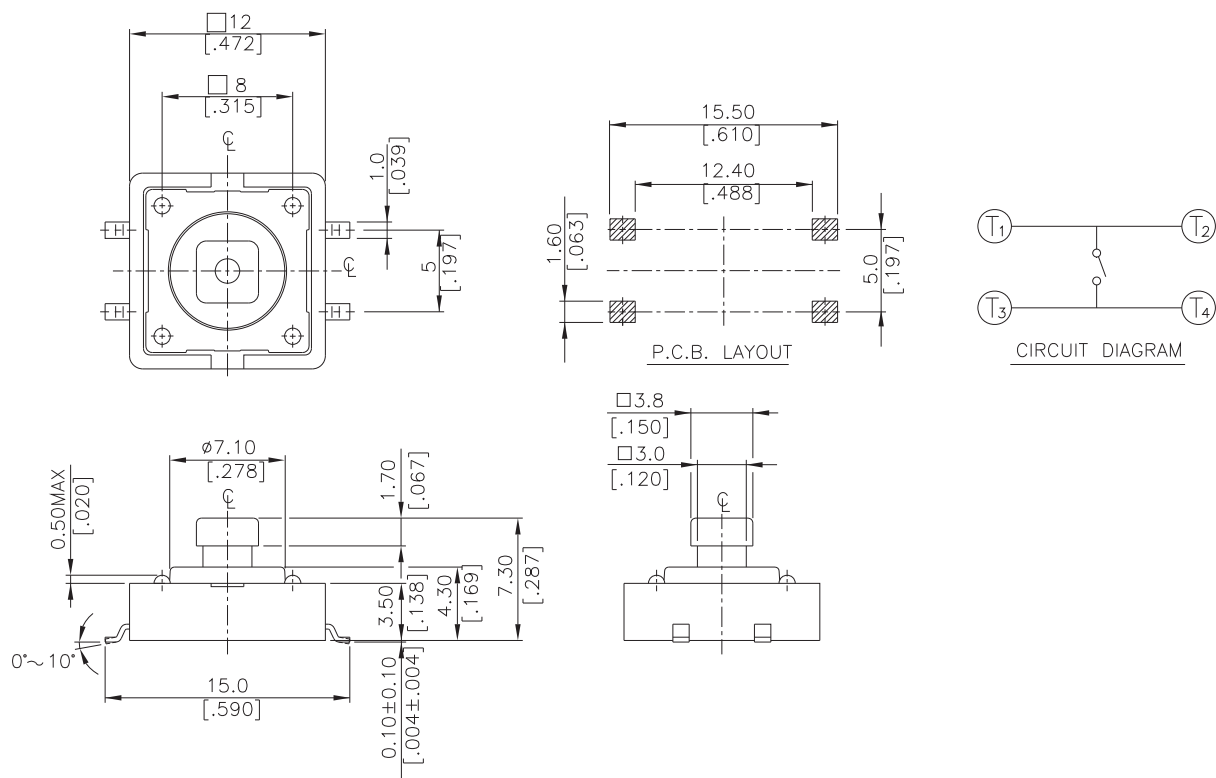
DTSMG-6

General Tolerance : $\pm 0.2\text{mm}$

DTSM-2

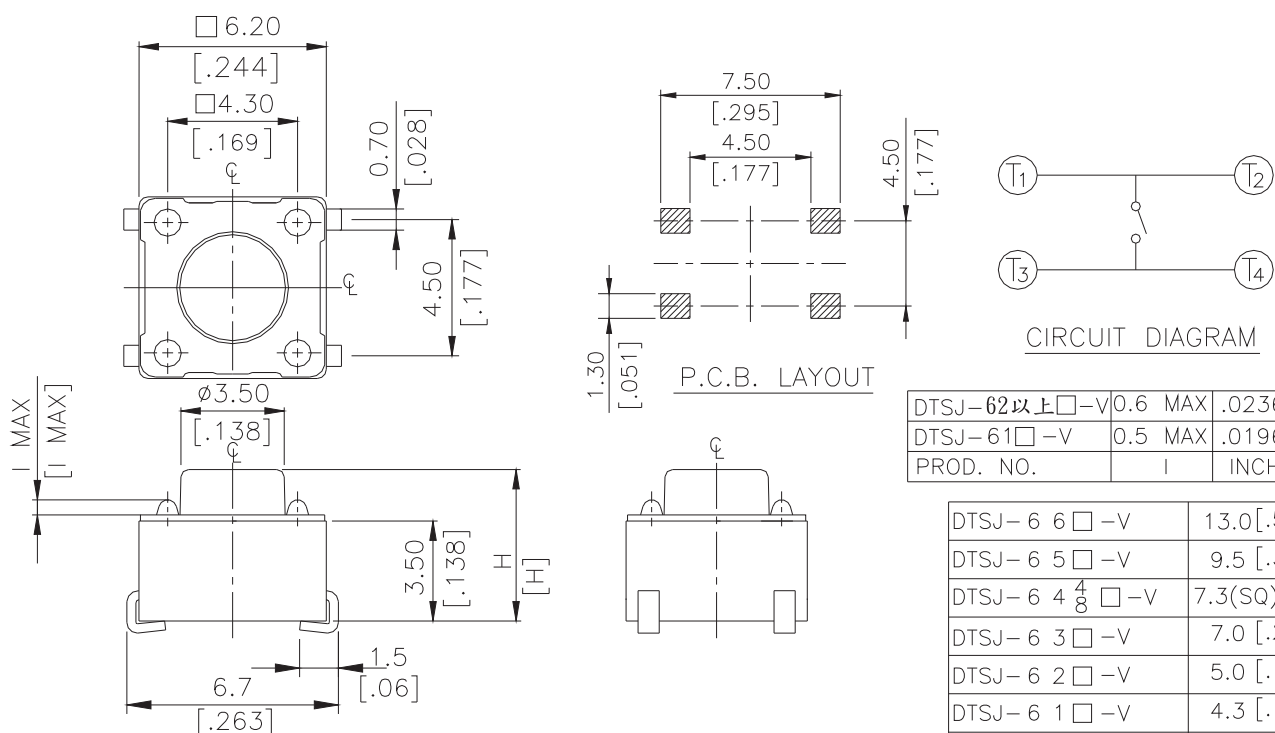
General Tolerance : $\pm 0.2\text{mm}$

DTSM-24



General Tolerance : $\pm 0.2\text{mm}$

DTSJ-6



DTSJ-62以上	$\square - V$	0.6 MAX	.0236 MAX
DTSJ-61	$\square - V$	0.5 MAX	.0196 MAX
PROD. NO.	I	INCHES	

DTSJ-6 6	$\square - V$	13.0 [0.512]
DTSJ-6 5	$\square - V$	9.5 [0.374]
DTSJ-6 4	$\frac{4}{8} \square - V$	7.3(SQ) [0.287]
DTSJ-6 3	$\square - V$	7.0 [0.275]
DTSJ-6 2	$\square - V$	5.0 [0.197]
DTSJ-6 1	$\square - V$	4.3 [0.169]
PROD.	NO.	H

HOW TO ORDER

D T S ☐ ☐ - ☐ ☐ ☐ ☐ - ☐ - ☐

Package style :

B=Tube

T/R=Tape&Reel <▲ Except DTSM-66>

Soldering :

V=Lead Free Solderable

Q=Halogen Free

☐=Phosphor Bronze Dome

S= Stainless Steel Dome

Color Of Stem For Operating Force :

K=Black,100gf

N=Brown,160gf

R=Red,260gf

S=Salmon,320gf

Y=Yellow,520gf

Dimension H :

1=4.3mm

2=5.0mm

3=7.0mm

44=7.3mm(SQ)X2.4mm

48=7.3mm(SQ)X2.8mm

5=9.5mm

6=13mm

Prod Size :

6=6X6mm

☐=Without Ground Terminal

G=With Ground Terminal

M=Surface-Mourting Type Tactile Switch

J= Surface-Mourting Type Tactile Switch

DTSM - □ □ □ - □ - □ - □

Package Style :

B = Tube

T/R = Tape & Reel

Soldering :

V = Lead Free Solderable

Q= Halogen Free

□=Phosphor Bronze Dome

(*S= Stainless Steel Dome)

(*12X12 K、S、Y Unavailable)

Color Of Stem For Operating Force :

N = Brown,160gf

R = Red,260gf

S = Salmon,320gf

Dimension H :

1 = 4.3mm

4 = 7.3mm(SQ)X3.8mm

5 = 8.5mm

Prod. Size :

2 = 12X12mm

Surface-Mounting Type Tactile Switch

<Non-Washable>

SPECIFICATION

△MECHANICAL

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

Stroke: (6x6) 0.25 +0.2mm / -0.1mm
(12X12) 0.35 ±0.1mm

Operation Temperature: -25℃ to +70℃

Storage Temperature: -30℃ to +80℃

△ELECTRICAL(6x6mm) (Phosphor Bronze dome)

Electrical Life: 200,000 cycles for 100,160gf
100,000 cycles for 260gf
50,000 cycles for 320,520gf

(Stainless Steel dome)

Electrical Life: 1,000,000 cycles for 100,160gf
500,000 cycles for 260gf
300,000 cycles for 320、520gf

(Phosphor bronze dome)

ELECTRICAL (12X12mm)

Electrical Life: 100,000 cycles for 320gf
100,000 cycles for 260gf
200,000 cycles for 160gf

(Stainless Steel dome)

Electrical Life: 500,000 cycles for 260gf
1,000,000 cycles for 160gf

Rating: 50mA, 12VDC

Contact Resistance: 100mΩ max.

Insulation Resistance: 100MΩ min. at 500VDC

Dielectric Strength: 250VAC/ minute

Contact Arrangement: SPST

MATERIAL

△COVER: Stainless Steel(for DTSM-6、2)

Nickel Silver (for DTSMG-6)

△BASE: UL94V-0 Nylon High-Temp. Thermoplastic

Color: Black (Standard)

Color: Brown (V option)

△STEM: UL94V-0 Nylon High-Temp. Thermoplastic

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

Red (260gf), Salmon (320gf)

Yellow (520gf)

△CONTACT DISC: Phosphor Bronze with silver cladding
(Standard)

Stainless Steel(V option)

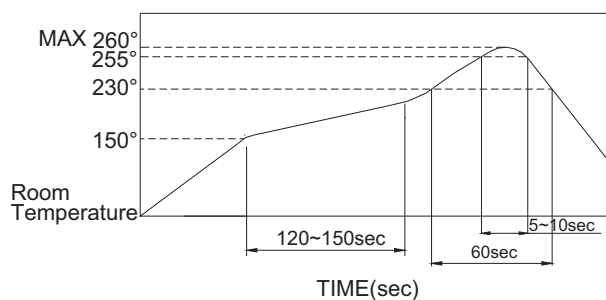
△TERMINAL: Brass with silver plated

SOLDERING PROCESS

△ **HAND SOLDERING** : Use a soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder.

△ **REFLOW SOLDERING** : When applying reflow soldering, the peak temperature or the reflow oven should be set to 260°C max.

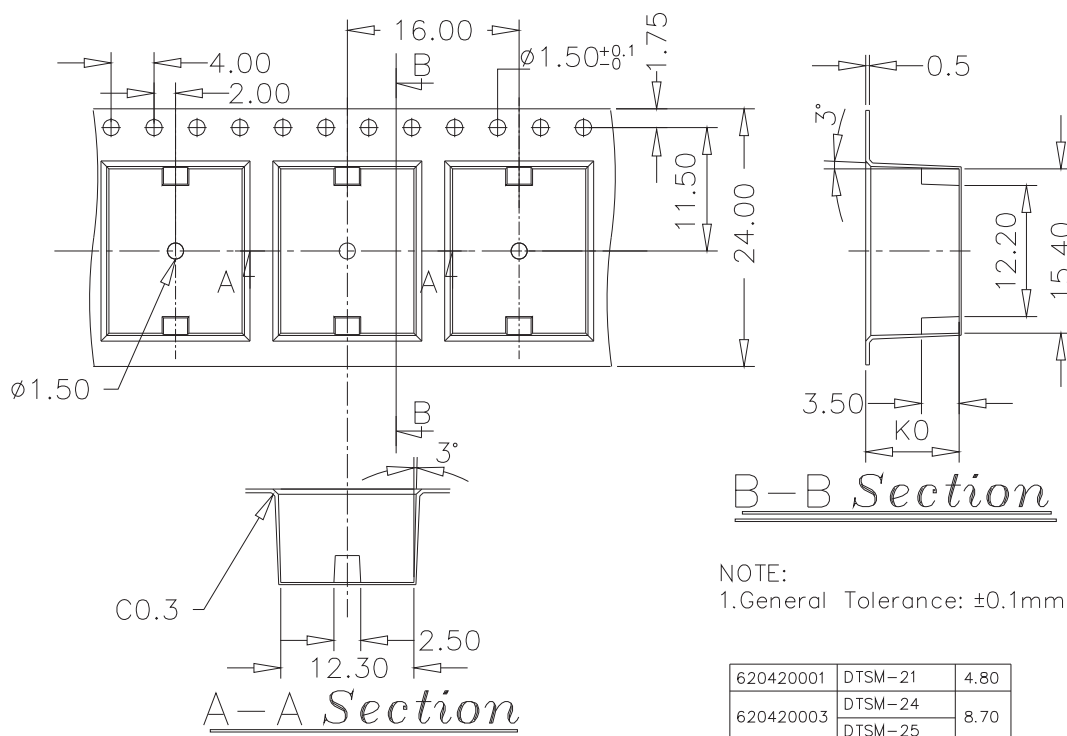
△ **Temperature Profile:**



PACKING

Part Number	Number Per Tube	Number Per Reel
DTSM-61	77	1000
DTSMG-61	-	1000
DTSM-62	77	900
DTSMG-62	-	1000
DTSM-63	77	700
DTSMG-63	-	500
DTSM-644(8)	77	500
DTSMG-644(8)	-	500
DTSM-65	77	380
DTSMG-65	-	380
DTSM-66	77	-
DTS(M)-21	40	700
DTS(M)-24	40	500
DTS(M)-25	40	400

DTSM-2 REEL

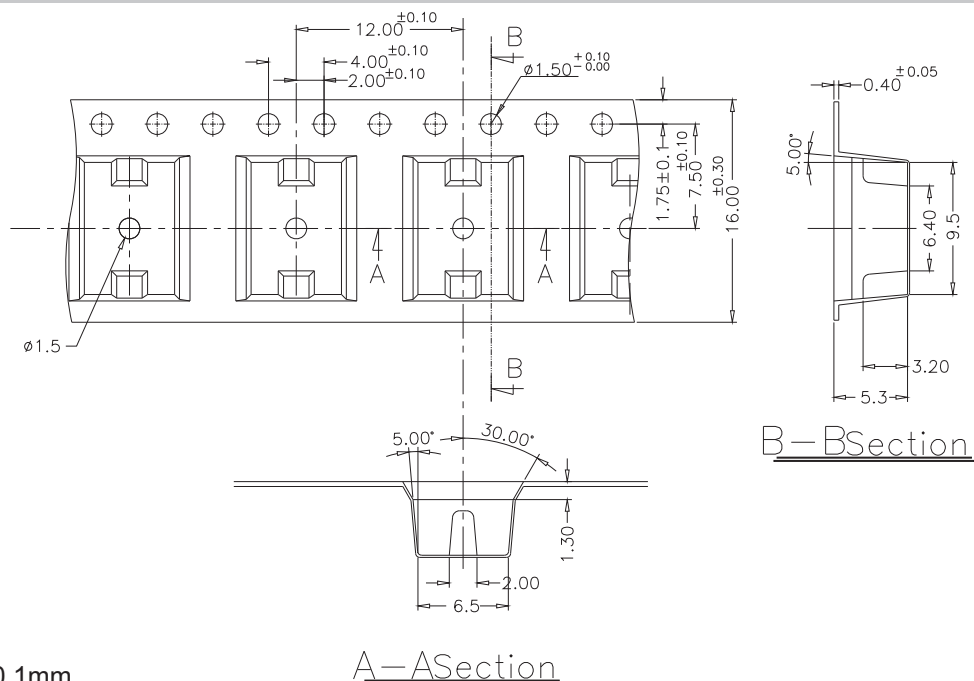


NOTE:
1. General Tolerance: $\pm 0.1\text{mm}$.

620420001	DTSM-21	4.80
620420003	DTSM-24	8.70
	DTSM-25	
PART NO:	PART NAME:	K0

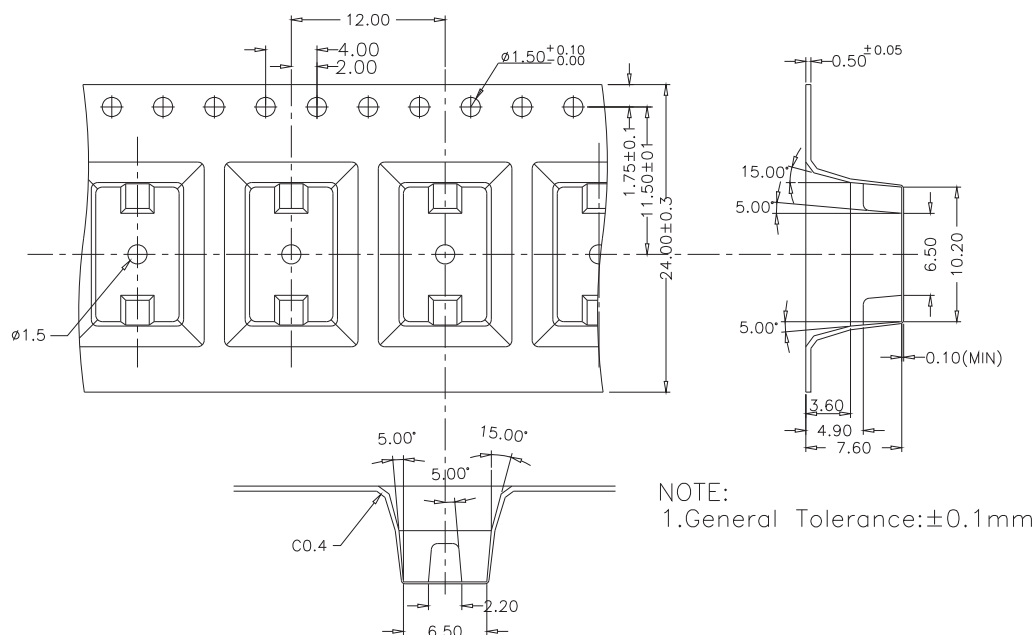
General Tolerance : $\pm 0.1\text{mm}$

DTSM-61.62 REEL

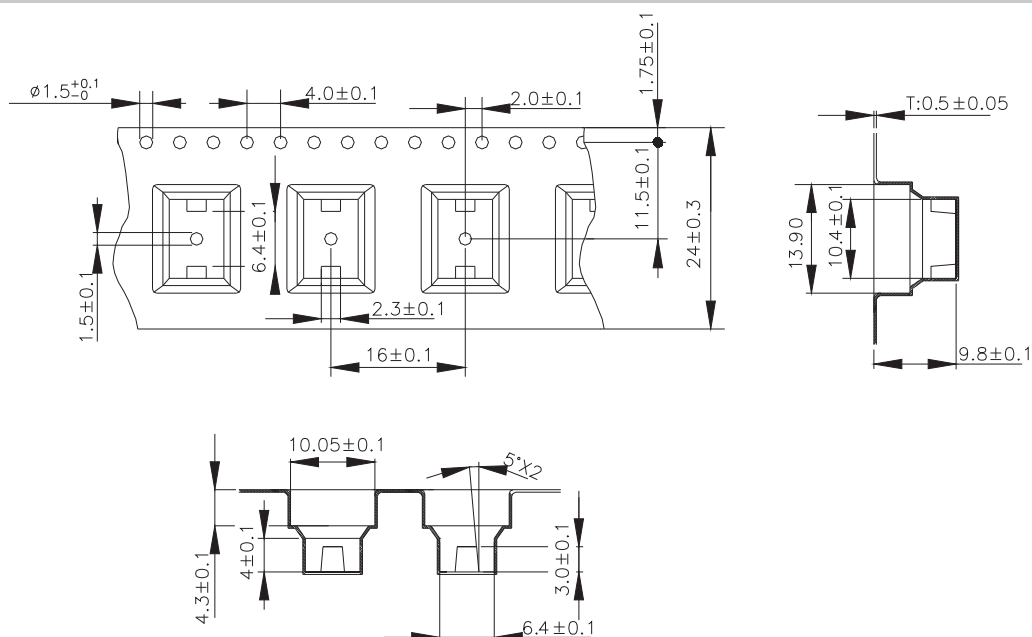


General Tolerance : $\pm$ 0.1mm

DTSM-64 REEL

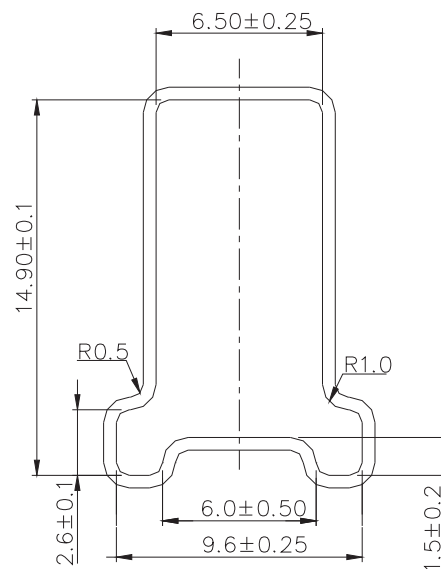
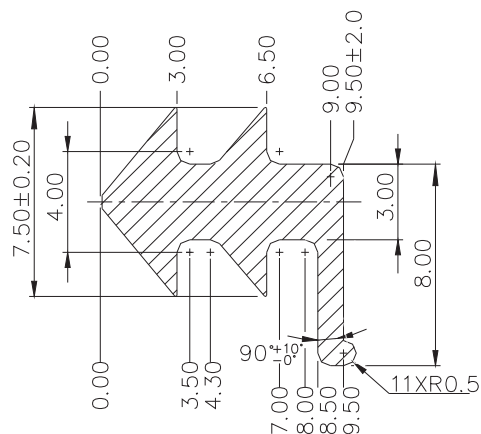


DTSM-65 REEL



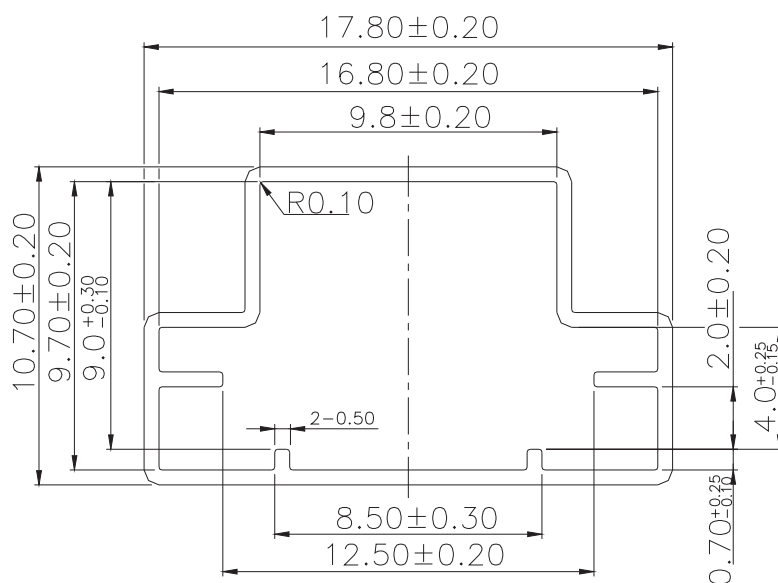
General Tolerance : $\pm$ 0.1mm

DTSM-65.66 TUBE



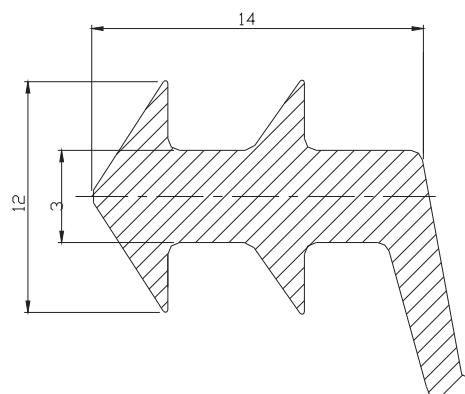
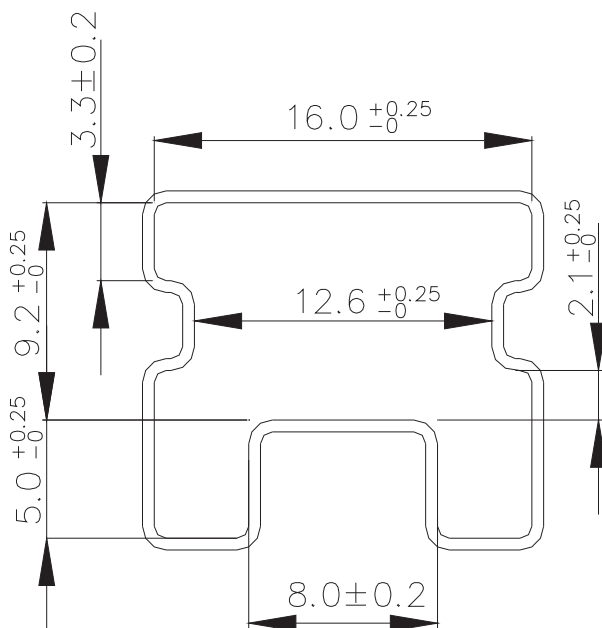
General Tolerance : ±0.2mm

DTSM-2 TUBE



General Tolerance : ±0.2mm

DTS-2 TUBE



General Tolerance : ±0.2mm