

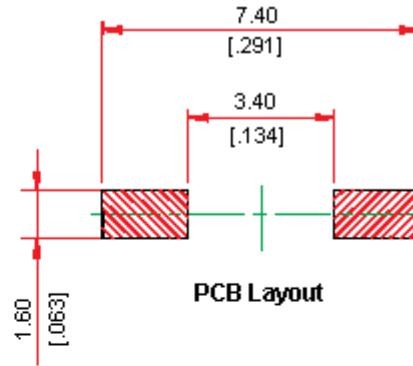
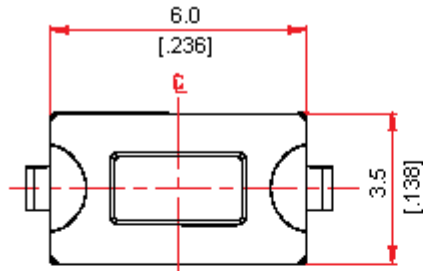


PART NO.

DTSM-32S-B

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	S. K	12/4/06	K. S	12/4/06	N. K	26/4/06



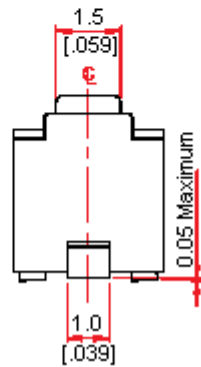
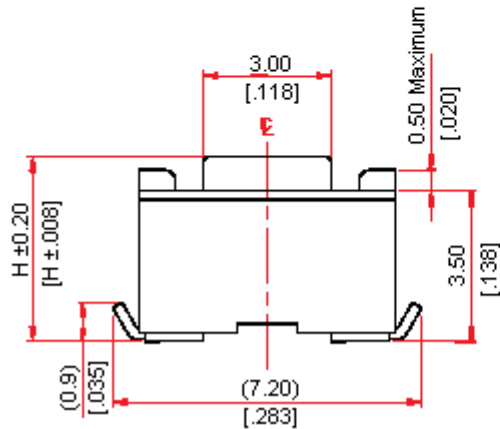
PCB Layout

Features:

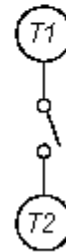
- Sharp click feel with a positive tactile feedback. Due to small movement distance (stroke), user experiences distinct sensation when the switch clicks into place.
- Ultraminiature and light weight structure suitable for high density mounting. Economic but high reliability.
- Insert moulding in the contact with special treatment prevents flux build-up during soldering and permits auto-dipping.

Materials:

- Cover : Stainless steel.
- Base : Nylon or PPA high temperature thermoplastic.
Colour : Black.
- Stem : Nylon high temperature thermoplastic.
Colour : Salmon (320gf).
- Contact disc : Stainless steel with silver cladding.
- Terminal : Brass with silver cladding.



Circuit Diagram



General Tolerance Maximum ±0.20mm

Dimensions : Millimetres (Inches)

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K. Suresh	12/04/06
APPROVED BY:	DATE:
N. Kiwomya	26/04/06

DRAWING TITLE:			
DTSM-32S-B - Tact Switches			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10000250	233660_2_DWG	A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 1 OF 5



PART NO.

DTSM-32S-B

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Specifications:

Mechanical:

Operation Force : 320 ±80gf Salmon (S).
 Stroke : 0.25 (+0.2/-0.1mm).
 Operating Temperature Range : -25°C to +70°C.
 Storage Temperature Range : -30°C to +80°C.
 Vibration Test : MIL-STD-202F Method 201A.
 Frequency : 10 - 55 - 10Hz/1 minute.
 Directions : X, Y, Z three mutually perpendicular directions.
 Time : 2 hours each direction.
 High reliability.

Shock Test : MIL-STD-202F Method 213B.
 Condition A.
 Gravity : 50G (peak value), 11 milliseconds.
 Direction and times : 6 sides and 3 times in each direction.
 High reliability.

Electrical:

Electrical Life : 50,000 cycles for 320gf.
 Contact Resistance : 100mΩ maximum.
 Insulation Resistance : 100MΩ minimum at 500V dc.
 Dielectric Strength : 250V ac/1 minute.
 Contact Arrangement : 1 pole 1 throw.

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DRAWING TITLE:

DTSM-32S-B - Tact Switches

SIZE A	DWG NO. M10000250	ELECTRONIC FILE 233660_2_DWG	REV A
		SCALE: NTS	U.O.M.: mm (Inches)



PART NO.

DTSM-32S-B

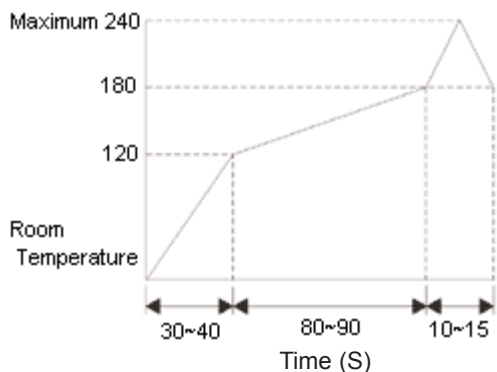
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Soldering Process:

- Hand Soldering : Use a soldering iron of 30 watts, controlled at 608°F (320°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°C maximum
- Condition for soldering (Reflow and Non-washable type).
- Wave Soldering : Recommended solder temperature at 500°F (260°C) maximum.5 seconds, for through hole type. Subject to PCB 1.6mm thickness.

Reflow Temperature Profile



Part Number Table

Current Rating at 12V dc (mA)	Part Number
50	DTSM-32S-B

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SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 3 OF 5



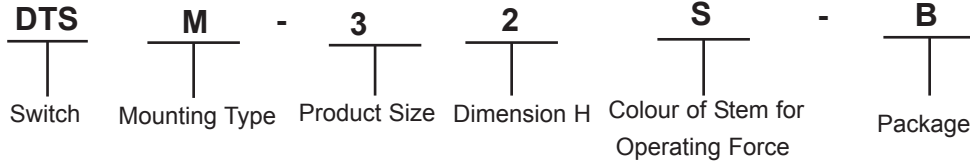
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Part Number Explanation



- Switch** : Tactile switch.
- Mounting Type** : M = Surface Mounting Type.
- Product Size** : 3 = 3.5 x 6.
- Dimension H** : 2 = 5.0mm.
- Colour of the Stem Operating Force** : S = Salmon, 320gf.
- Package** : B = Tube Package.

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