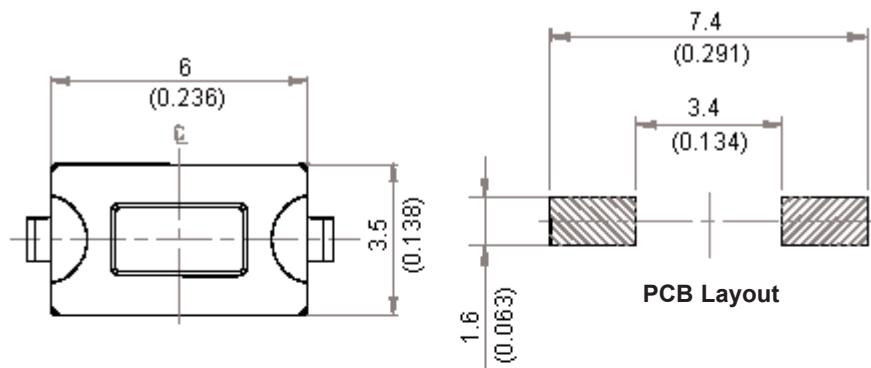
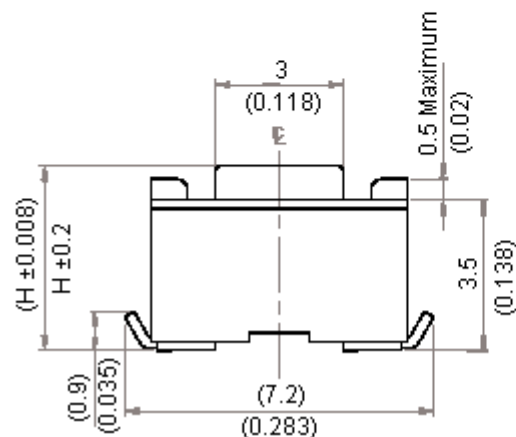
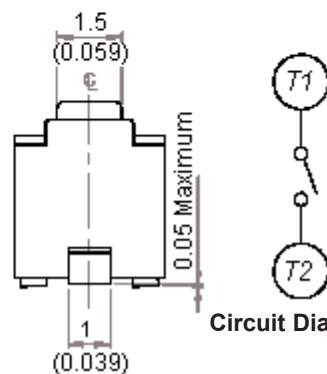


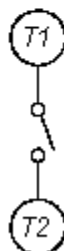
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PCB Layout


General Tolerance Maximum ± 0.2 mm


Circuit Diagram



Dimensions : Millimetres (Inches)

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
- Ultra miniature 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

Specifications:

Materials

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

Mechanical

Operation force	: 320 $\pm$ 80 gf salmon (S)
Stroke	: 0.25 (+0.2 / -0.1 mm)
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 - 10 Hz / 1 minute
Directions	: X, Y, Z three mutually perpendicular directions
Time	: 2 hours each direction
High reliability	

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DRAWING TITLE:

Tact Switch

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10000250	233660_2_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 1 OF 3	



PART NO.

DTSM-32S-B

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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Mechanical

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

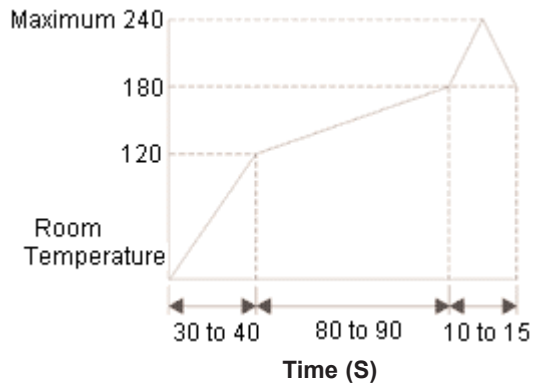
Electrical

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

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 1.6 mm thickness

Reflow Temperature Profile



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18/05/12

DRAWING TITLE:

Tact Switch

SIZE
A

DWG NO.

M10000250

ELECTRONIC FILE
233660_2_DWGREV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 2 OF 3



PART NO.

DTSM-32S-B

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	SID	04/5/12	AMU	04/5/12		18/5/12

Specification Table

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

Part Number Explanation:

DTS	M	-	3	2	S	-	B
Switch	Mounting Type		Product Size	Dimension H	Colour of Stem for Operating Force		Package

Switch	: Tactile switch
Mounting Type	: M = Surface Mounting Type
Product Size	: 3 = 3.5 × 6
Dimension H	: 2 = 5 mm
Colour of the Stem Operating Force	: S = Salmon, 320 gf
Package	: B = Tube Package

www.element14.com
www.farnell.com
www.newark.com

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DATE:

04/05/12

DATE:

18/05/12

DRAWING TITLE:

Tact Switch

SIZE
A

DWG NO.

M10000250

ELECTRONIC FILE
233660_2_DWGREV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 3 OF 3