

CAP OPTIONS	TOGGLE SWITCHES	SNAP ACTION SWITCHES	SLIDE SWITCHES	ROTARY SWITCHES	ROCKER SWITCHES	PUSHBUTTON SWITCHES	NAVIGATION SWITCHES	KEYLOCK SWITCHES	DIP SWITCHES	DETECTOR SWITCHES	ANTI-VANDAL SWITCHES
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RoHS

FEATURES & BENEFITS

- Up to 5,000,000 cycle life expectancy
- Tape and Reel packaging
- IP67 ratings
- Multiple force options

PART NUMBER CONFIGURATOR

Series	Circuit	Actuator	Force	Plating	Termination
 TL	 6150	 A - 3.50 B - 5.20	 F160 - 160 gf - Brown F200 - 200 gf - Red F350 - 350 gf - Orange	 Q - Silver	 G - Gull Wing J - J Lead

Specifications subject to change without notice 2.9.2021

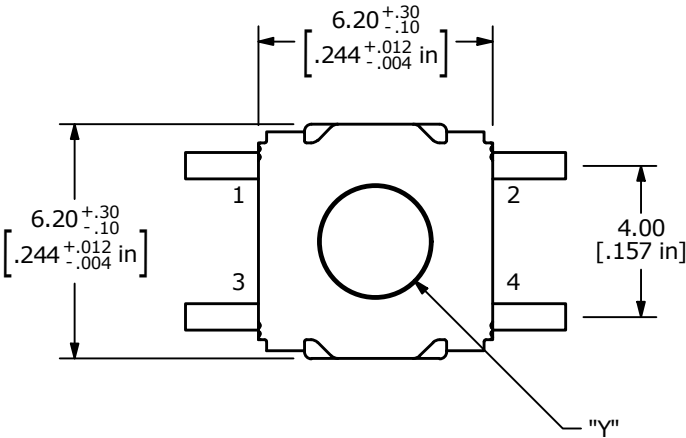
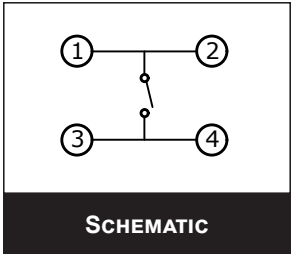
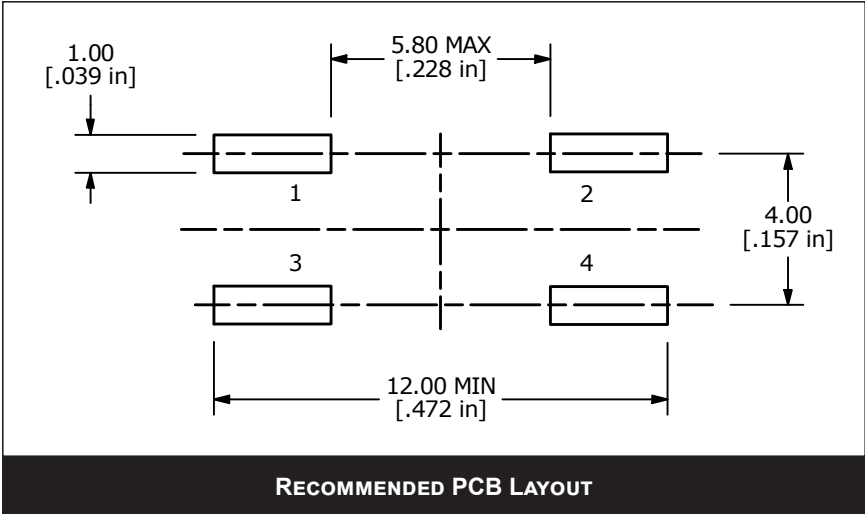


E♦SWITCH®

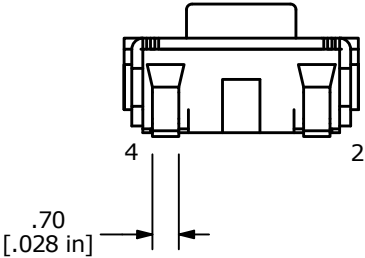
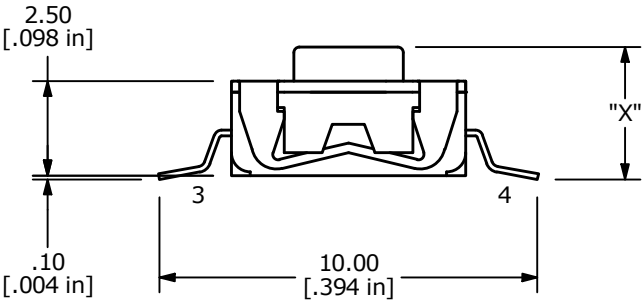
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BODY DIMENSIONS
GULL WING

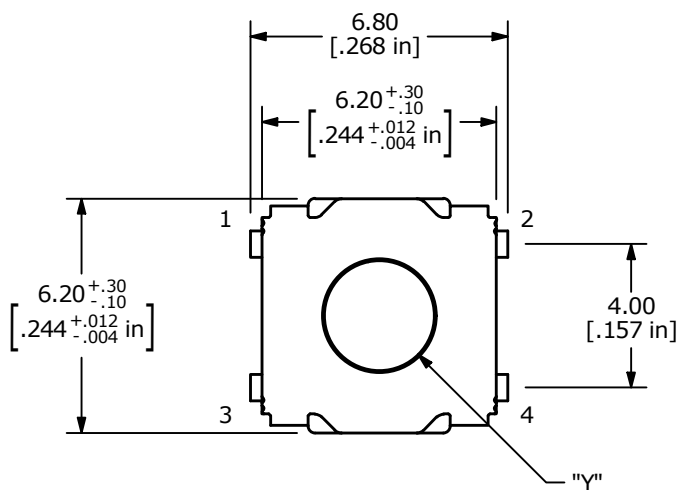
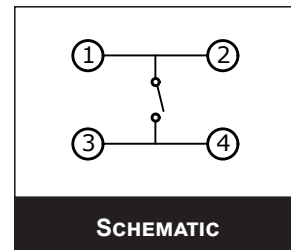
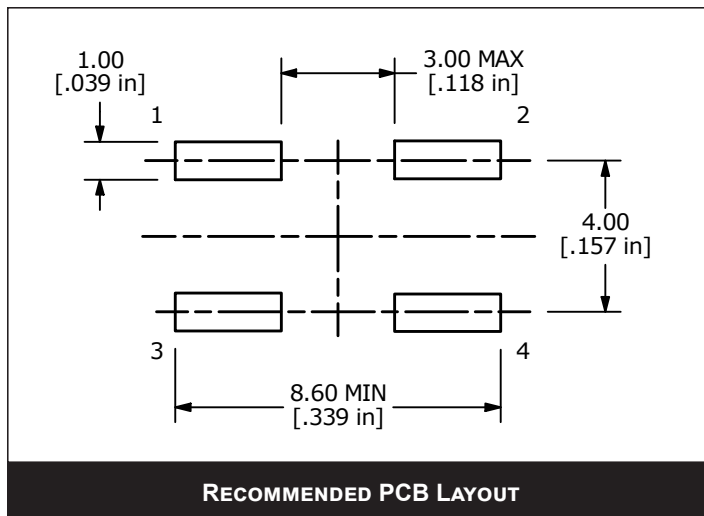


ACTUATOR	"X"	"Y"
A	3.50	2.90
B	5.20	2.70

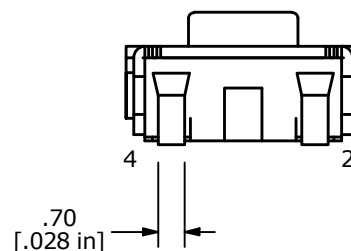
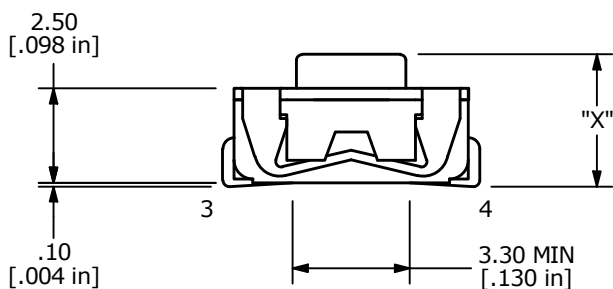


TL6150 SERIES TACT SWITCH

BODY DIMENSIONS J LEAD



ACTUATOR	"X"	"Y"
A	3.50	2.90
B	5.20	2.70



ANTI-VANDAL SWITCHES	DETECTOR SWITCHES	DIP SWITCHES	KEYLOCK SWITCHES	NAVIGATION SWITCHES	PUSHBUTTON SWITCHES	ROCKER SWITCHES	ROTARY SWITCHES	SLIDE SWITCHES	SNAP ACTION SWITCHES	TACTILE SWITCHES	TOGGLE SWITCHES	CAP OPTIONS
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Technical drawing of a mechanical part, showing three views: Top View, Front View, and Side View. Dimensions are provided in inches and millimeters.

Top View Dimensions:

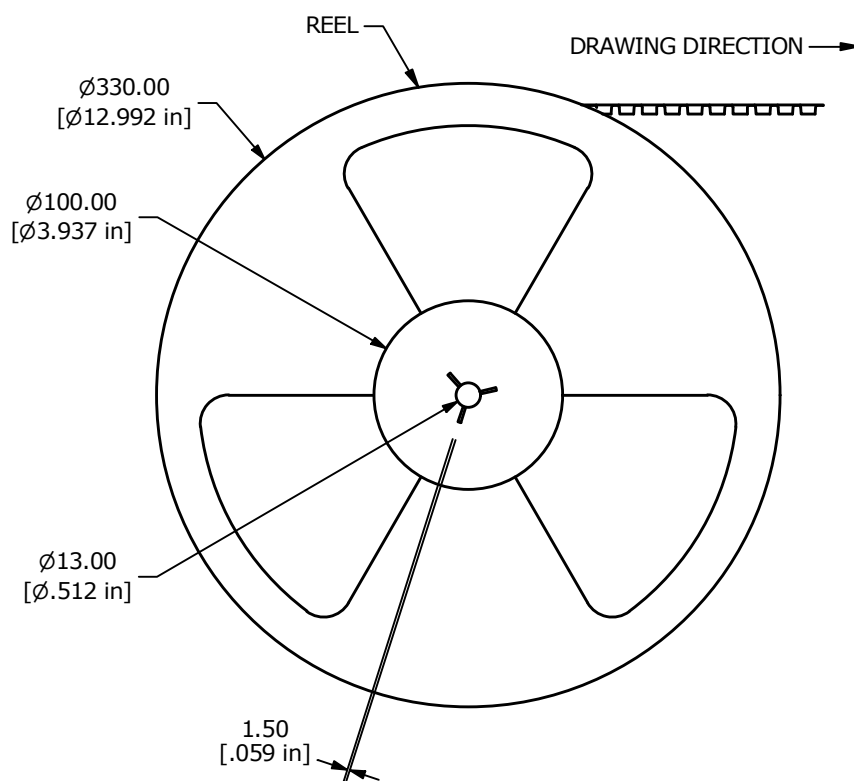
- Overall width: 12.00 [.472 in]
- Distance from left edge to first hole: 2.00 [.079 in]
- Distance between holes: 4.00 [.157 in]
- Distance from right edge to last hole: 1.75 [.069 in]
- Hole diameter: $\phi 1.50$ [$\phi .059$ in]
- Distance from top edge to hole centerline: 7.50 [.295 in]
- Overall height: 16.00 [.630 in]

Front View Dimensions:

- Top flange width: 4.50 [.177 in]
- Top flange thickness: 15.0°
- Top flange angle: 31.0°
- Top flange width at base: 6.0°
- Overall height: 3.20 [.126 in]
- Distance from left edge to centerline: 2.60 [.102 in]
- Distance from right edge to centerline: 6.70 [.264 in]

Side View Dimensions:

- Top flange thickness: .40 [.016 in]
- Top flange angle: 6.0°
- Top flange width at base: 6.0°
- Overall height: 10.50 [.413 in]
- Distance from left edge to centerline: 6.50 [.256 in]
- Distance from right edge to centerline: 3.25 [.128 in]



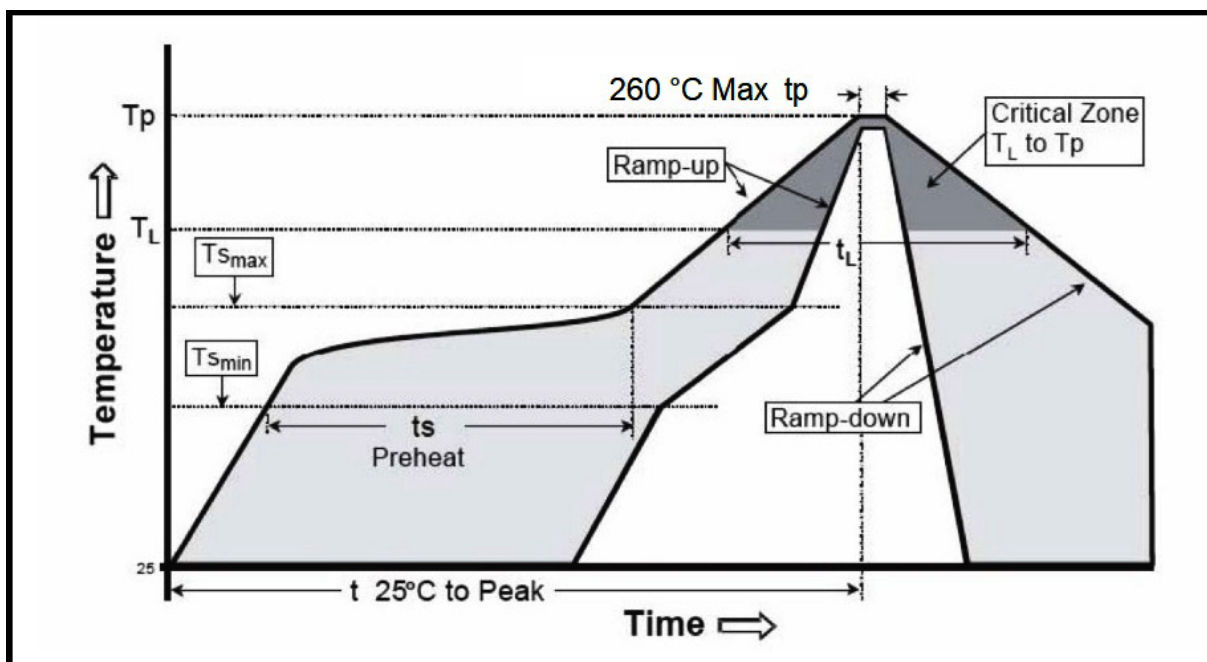
RECOMMENDED SOLDER PROCESS

Most contamination problems can be prevented by exercising care during the cleaning and soldering process. Care should be taken not to immerse or spray unsealed switches during flux removal. Contact E-Switch for specific soldering recommendations and specifications not shown. Generalized soldering procedures are outlined below.

“TYPICAL” SMT REFLOW (Pb and Pb-Free)

Profile Feature	Sn-Pb Eutectic Assembly	Pb-Free Assembly
Average Ramp-Up Rate ($T_{s_{max}}$ to T_p)	3 °C/second max.	3 °C/second max.
Preheat -Temperature Min ($T_{s_{min}}$) -Temperature Max ($T_{s_{max}}$) -Time ($t_{s_{min}}$ to $t_{s_{max}}$)	100 °C 150 °C 60-120 seconds	150 °C 200 °C 60-180 seconds
Time Maintained above: -Temperature (T_L) -Time (t_L)	183 °C 60-150 seconds	217 °C 60-150 seconds
Time within 5 °C of actual Peak Temperature (t_p)	10-30 seconds	20-40 seconds
Ramp-Down Rate	6 °C/second max.	6 °C/second max.
Time 25 °C to Peak Temperature	6 minutes max.	8 minutes max.

Note 1: All temperatures refer to topside of the package, measured on the package surface.



Mouser Electronics

Authorized Distributor

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E-Switch:

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