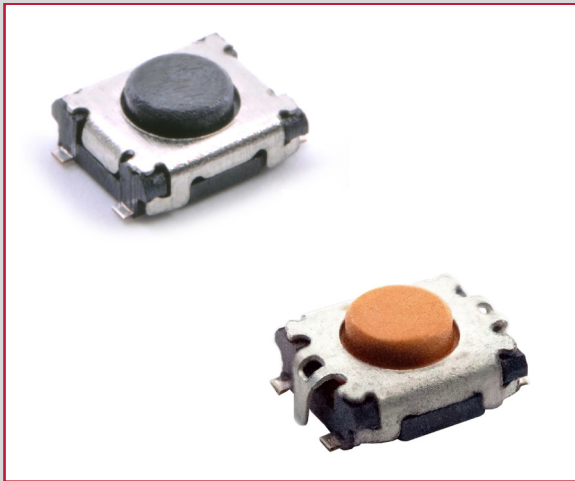
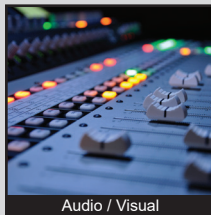


TL1018 SERIES TACT SWITCH

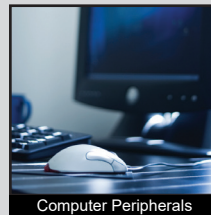
ANTI-VANDAL SWITCHES
DETECTOR SWITCHES
DIP SWITCHES
KEYLOCK SWITCHES
NAVIGATION SWITCHES
PUSHBUTTON SWITCHES
ROCKER SWITCHES
ROTARY SWITCHES
SLIDE SWITCHES
SNAP ACTION SWITCHES
TACTILE SWITCHES
TOGGLE SWITCHES
CAP OPTIONS



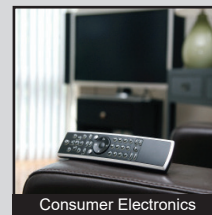
APPLICATIONS / MARKETS



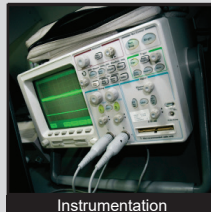
Audio / Visual



Computer Peripherals



Consumer Electronics



Instrumentation



Medical Equipment



Telecommunication

RoHS

SPECIFICATIONS

Electrical Rating: 50mA, 12VDC
Contact Resistance: 100mΩ Max. (Initial)
Insulation Resistance: 100MΩ Min. at 500VDC
Dielectric Strength: 250VAC for 1 Minute
Life Cycles: 500,000 cycles for 160gf
 200,000 cycles for 240gf, 340gf, and 450gf
Operating Temperature: -40°C to 85°C
Storage Temperature: -40°C to 85°C
Travel: 0.15mm ±0.1mm
Operating Force: F160 - 160 ±50gf, F240 - 240 ±70gf,
 F340 - 340 ±70gf, and F450 - 450 ±80gf
Function: SPST, Off-(On)
Packaging: Tape and Reel, 9,500 pcs/reel

FEATURES & BENEFITS

- Surface mount design
- 3.5 x 2.6 mm size
- Up to 500,000 cycle life expectancy
- Multiple actuation force options
- Ground terminal option
- Tape and Reel packaging

PART NUMBER CONFIGURATOR

Series	Actuator Height	Bosses	Ground Terminal	Actuation Force	Contact Plating	Termination
TL 1 0 1 8	A	A	A	F 1 6 0	Q	G
TL1018	A - 1.4mm	A - Without Bosses	A - Without Ground Terminal B - With Ground Terminal	F160 - 160 ±50gf F240 - 240 ±70gf F340 - 340 ±70gf F450 - 450 ±80gf	Q - Silver	G - Gull-wing

Specifications subject to change without notice 4.2.2024



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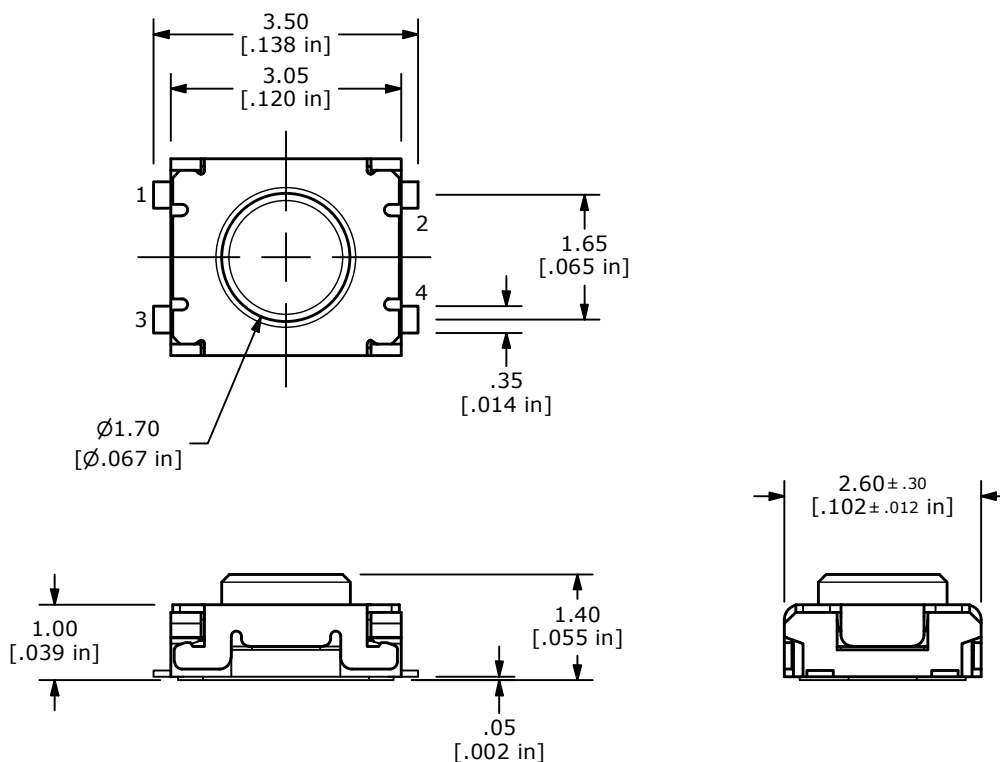
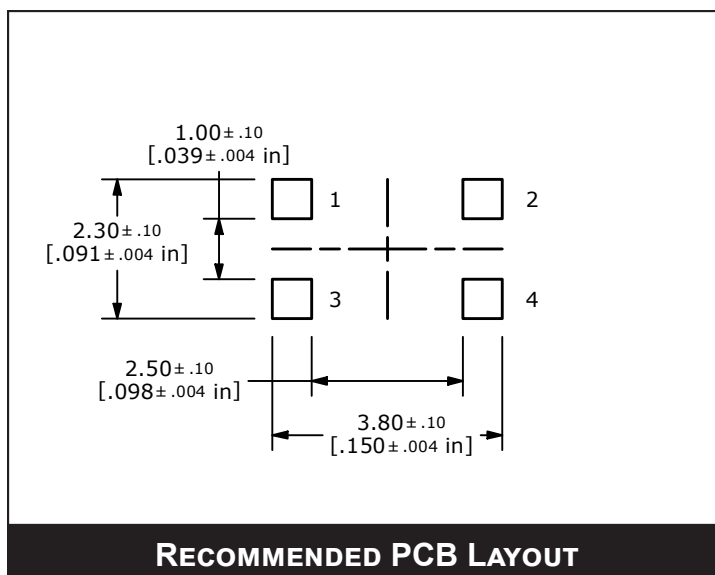
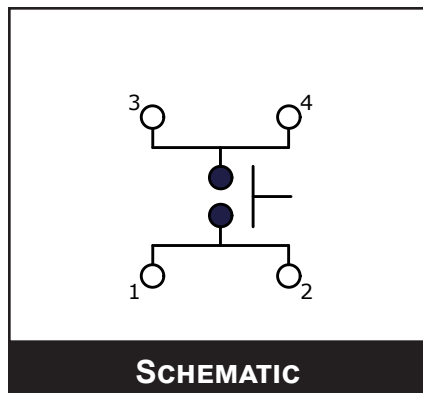
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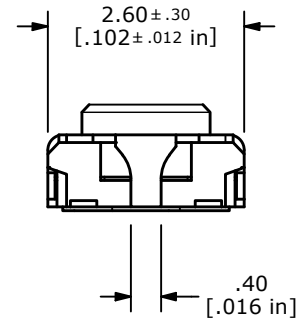
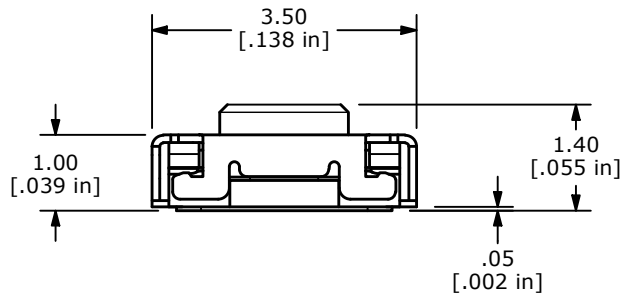
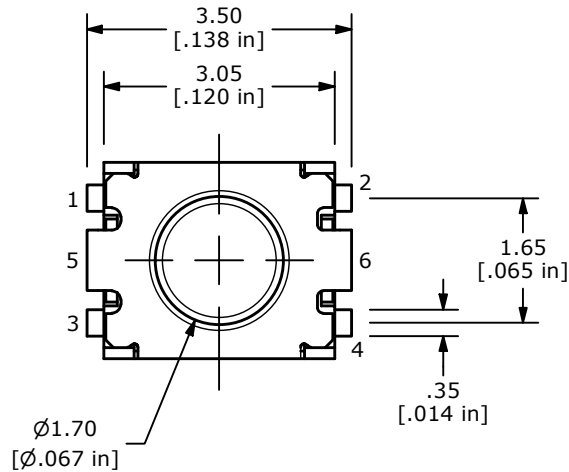
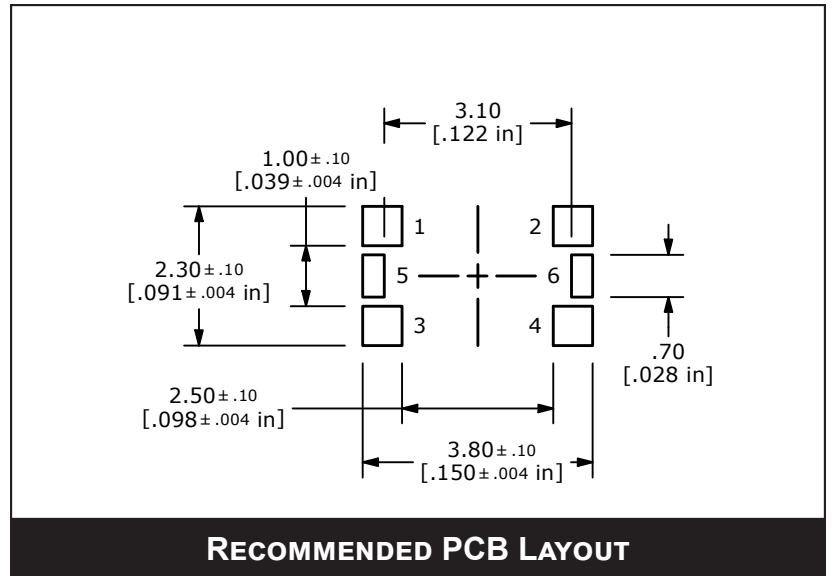
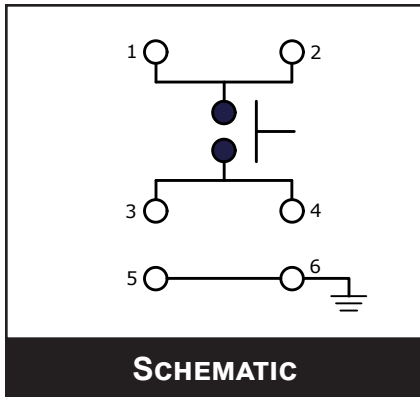
TL1018 SERIES TACT SWITCH

BODY DIMENSIONS WITHOUT BOSSES AND GROUND TERMINAL



TL1018 SERIES TACT SWITCH

BODY DIMENSIONS WITHOUT BOSSES AND WITH GROUND TERMINAL



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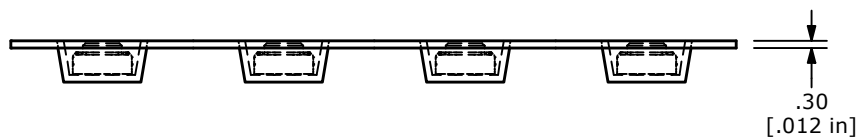
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ANTI-VANDAL SWITCHES	DETECTOR SWITCHES	DIP SWITCHES	KEYLOCK SWITCHES	NAVIGATION SWITCHES	PUSHBUTTON SWITCHES	ROCKER SWITCHES	ROTARY SWITCHES	SLIDE SWITCHES	SNAP ACTION SWITCHES	TACTILE SWITCHES	TOGGLE SWITCHES	CAP OPTIONS
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Technical drawing of a rectangular plate with the following dimensions and features:

- Overall width: 12.00 [.472 in]
- Overall height: 9.30 [.366 in]
- Top edge features:
 - Distance from left edge to first hole center: 1.75 [.069 in]
 - Distance between hole centers: 2.00 [.079 in]
 - Distance from last hole center to right edge: 4.00 [.157 in]
- Hole diameter: $\varnothing 1.50$ [$\varnothing .059$ in]
- Bottom edge features:
 - Distance from left edge to first square feature center: 12.00 [.472 in]
 - Distance between square feature centers: 8.00 [.315 in]
 - Distance from last square feature center to right edge: 3.40 [.134 in]
- Bottom edge detail:
 - Distance from bottom edge to center of square features: 5.50 [.217 in]
 - Distance from bottom edge to center of holes: 4.60 [.181 in]
 - Overall distance from bottom edge to top edge: 9.30 [.366 in]
- Label: COVER TAPE
- Side view detail: 1.50 [.059 in]



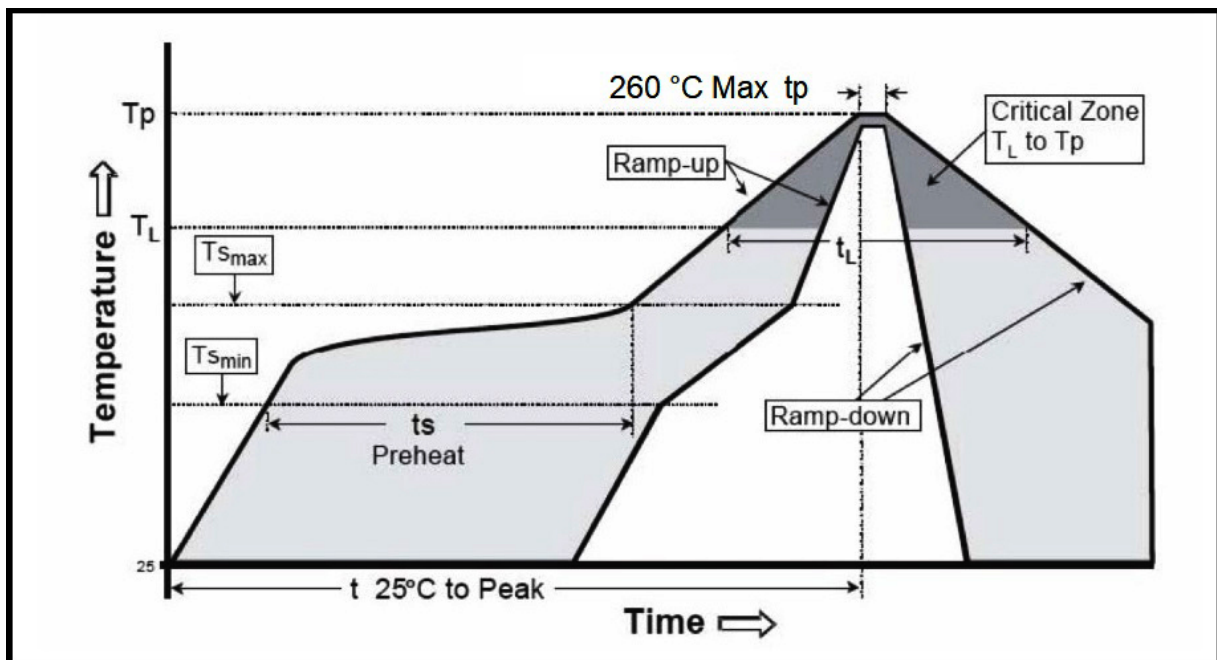
RECOMMENDED SOLDER PROCESS

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 ($T_{s_{min}}$)	100 °C	150 °C
-Temperature Max ($T_{s_{max}}$)	150 °C	200 °C
-Time ($t_{s_{min}}$ to $t_{s_{max}}$)	60-120 seconds	60-180 seconds
Time Maintained above:		
-Temperature (T_L)	183 °C	217 °C
-Time (t_L)	60-150 seconds	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.



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