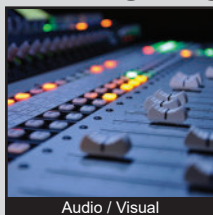


TL1030 SERIES TACT SWITCH

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



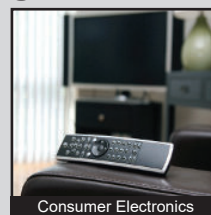
APPLICATIONS / MARKETS



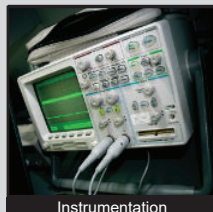
Audio / Visual



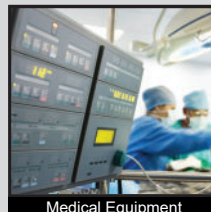
Computer Peripherals



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: F160, F200, F350 - 200,000 cycles
 F500 - 100,000 cycles
Operating Temperature: -40°C to 85°C
Storage Temperature: -40°C to 85°C
Travel: 0.15mm ±0.1mm
Operating Force: F160 - 160 ±50gf, F200 - 200 ±50gf,
 F350 - 350 ±50gf, and F500 - 500 ±100gf
Function: SPST, Off-(On)
Packaging: Tape and Reel, 4,000 pcs/reel

FEATURES & BENEFITS

- Surface mount design
- 3.5 x 2.9 mm size
- Up to 200,000 cycle life expectancy
- Multiple actuation force options
- Ground terminal option
- Tape and Reel packaging

PART NUMBER CONFIGURATOR

Series	Actuator Height	Actuation Force	Ground Terminal	Contact Plating	Termination
<input type="text" value="TL"/> <input type="text" value="10"/> <input type="text" value="30"/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	<input type="text" value="A"/>	<input type="text" value="F160"/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	<input type="text" value="A"/>	<input type="text" value="Q"/>	<input type="text" value="J"/>
TL1030	A - 1.7mm	F160 - 160gf ±50gf F200 - 200gf ±50gf F350 - 350gf ±50gf F500 - 500gf ±100gf	A - Without Ground Terminal B - With Ground Terminal	Q - Silver	J - J Lead

Specifications subject to change without notice 5.7.2024



E-SWITCH®

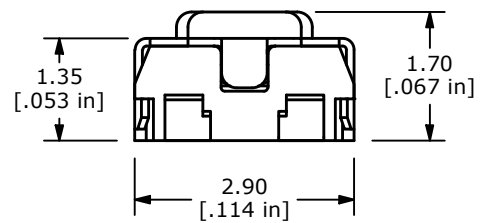
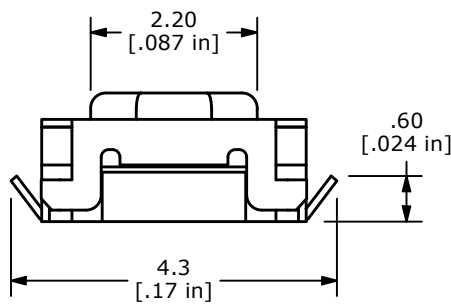
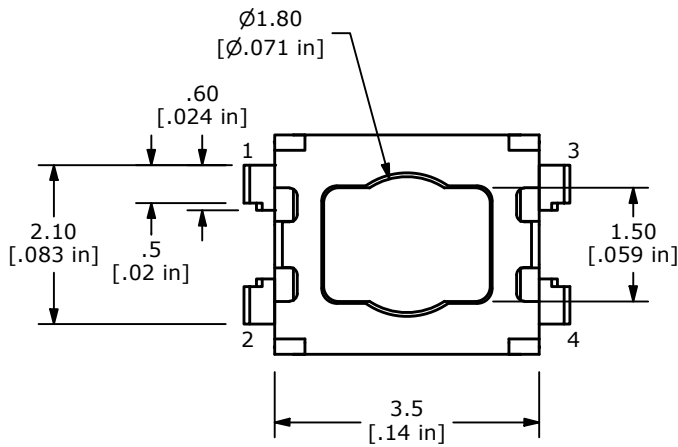
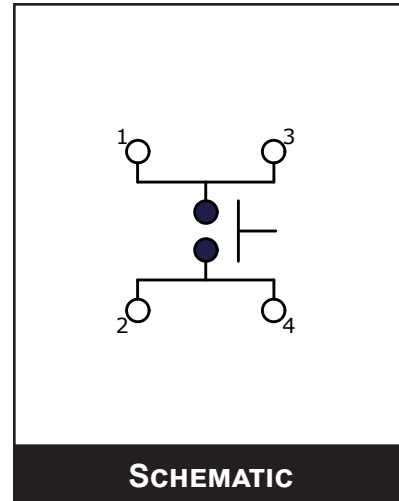
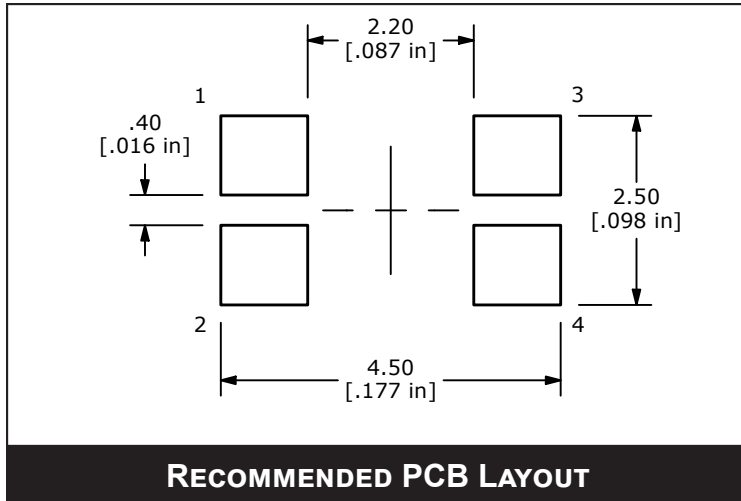
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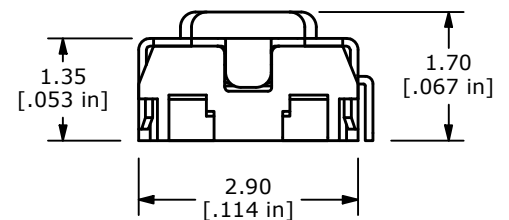
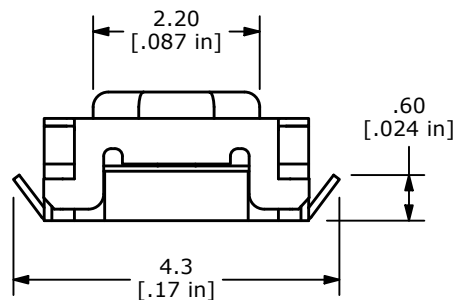
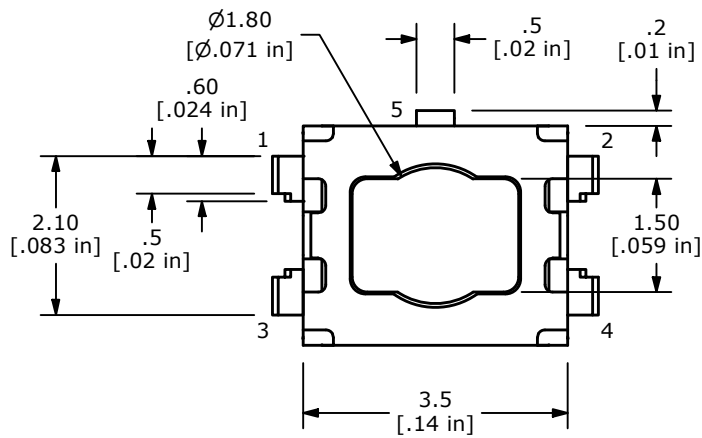
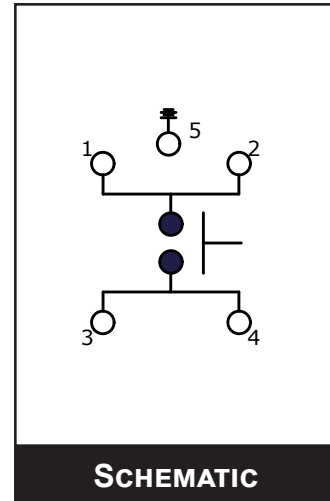
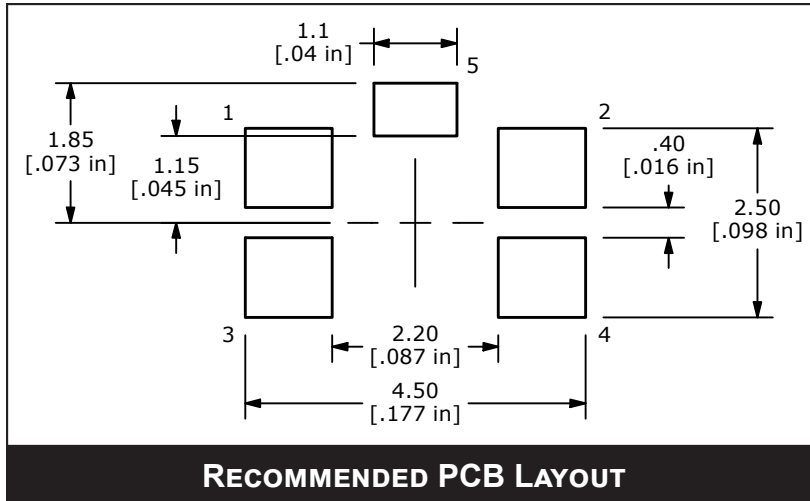
TL1030 SERIES TACT SWITCH

BODY DIMENSIONS WITHOUT GROUND TERMINAL



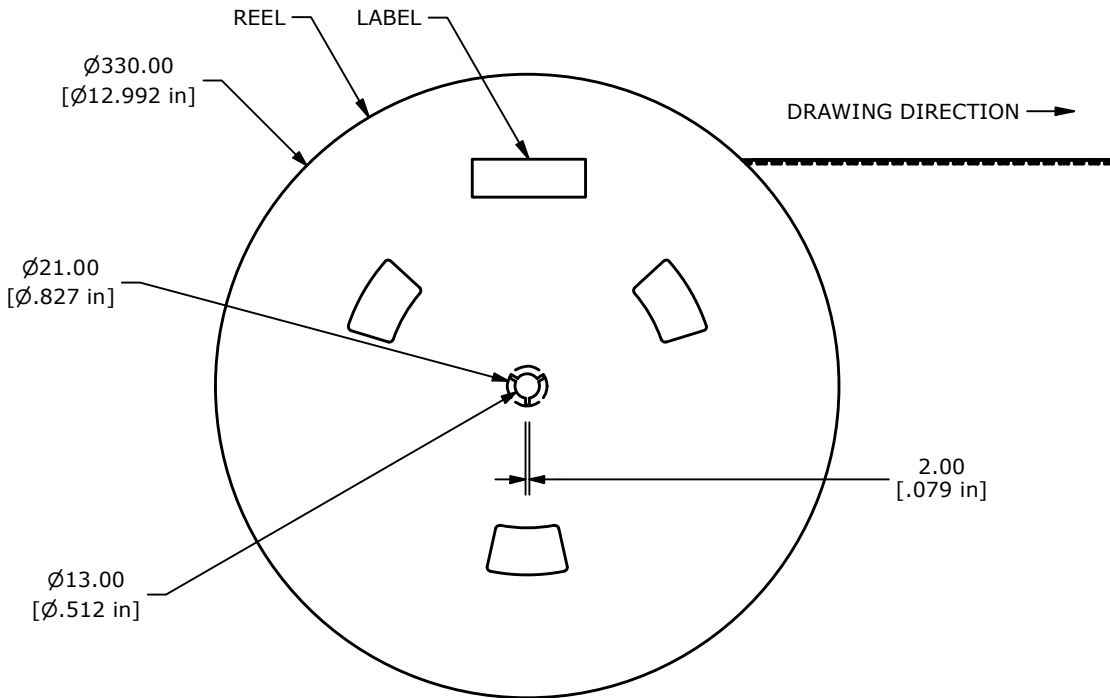
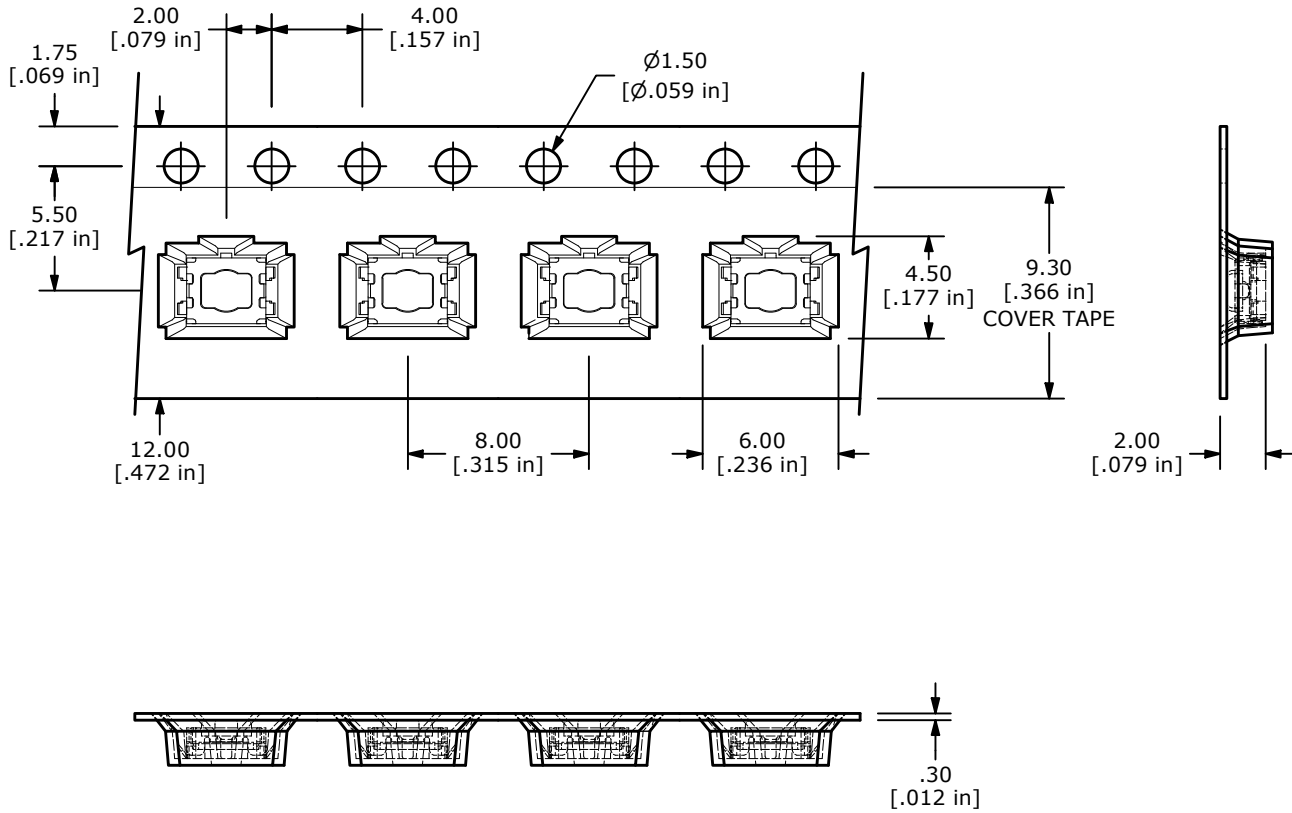
TL1030 SERIES TACT SWITCH

BODY DIMENSIONS WITH GROUND TERMINAL



TL1030 SERIES TACT SWITCH

BODY DIMENSIONS TAPE AND REEL



- ANTI-VANDAL SWITCHES
- DETECTOR SWITCHES
- DIP SWITCHES
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- NAVIGATION SWITCHES
- PUSHBUTTON SWITCHES
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- SNAP ACTION SWITCHES
- TACTILE SWITCHES**
- TOGGLE SWITCHES
- CAP OPTIONS

TL1030 SERIES TACT SWITCH

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.

