

TL1240 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



Telecommunication



Medical Equipment

RoHS

SPECIFICATIONS

Contact Rating: 50mA, 12VDC
Life Expectancy: 100,000 Cycles
Contact Resistance: 100mΩ Max. (Initial) at 2-4VDC
Insulation Resistance: 100MΩ Min.
Dielectric Strength: 250VAC for 1 minute
Actuation Force: 160 ± 50gf
Operating Temperature: -20°C to 70°C
Travel: 0.25mm
Function: SPST

FEATURES & BENEFITS

- Multiple LED color options
- Multiple cap options
- Independent LED Leads
- LED color matching upon request
- Reliable dome technology
- Tape and Reel packaging

PART NUMBER CONFIGURATOR

| Series | Model | LED Color | Contact Material | Cap | Cap Color |
|---------------------------------|-----------------------------------|--|--|---|---|
| <input type="text" value="TL"/> | <input type="text" value="1240"/> | <input type="text" value="Y"/> Y - Yellow R - Red G - Green B - Blue N - No LED | <input type="text" value="Q"/> Q - Silver | <input type="text" value="1J"/> None 1J 2J * | <input type="text" value="BLK"/> None BLK - Black WHT - White CLR - Clear |

* 2J Cap only available in BLK Cap Color

Specifications subject to change without notice 7.28.2025



E-SWITCH®

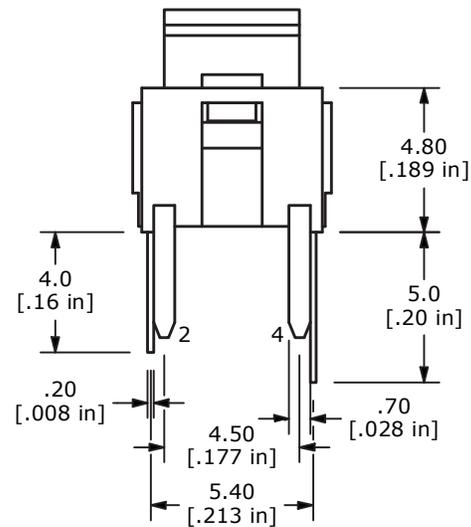
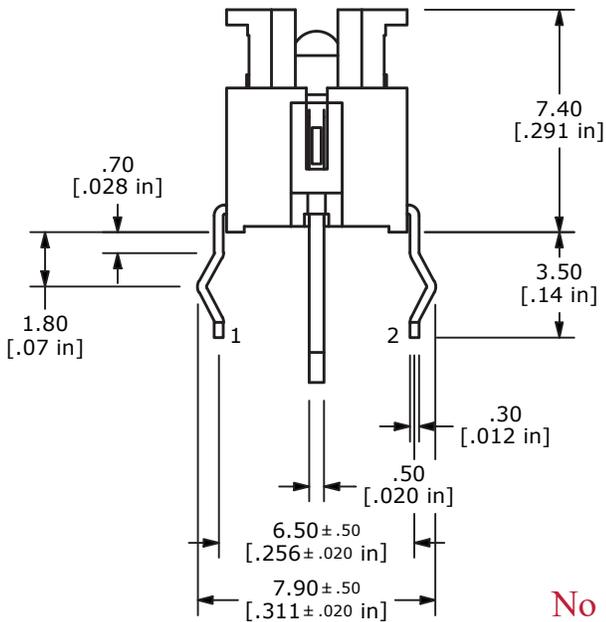
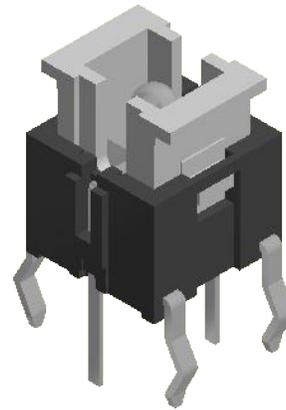
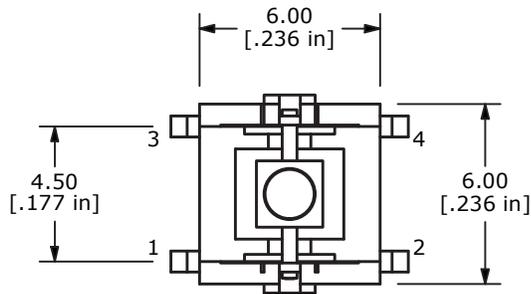
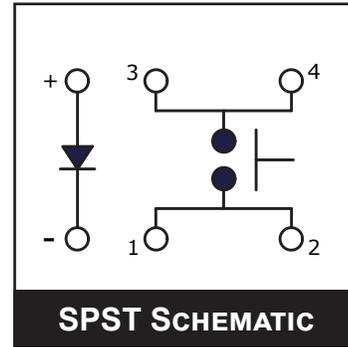
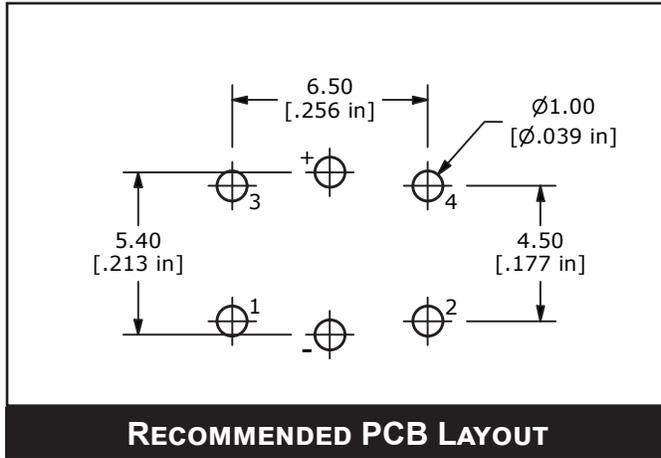
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BODY DIMENSIONS / CAP OPTIONS

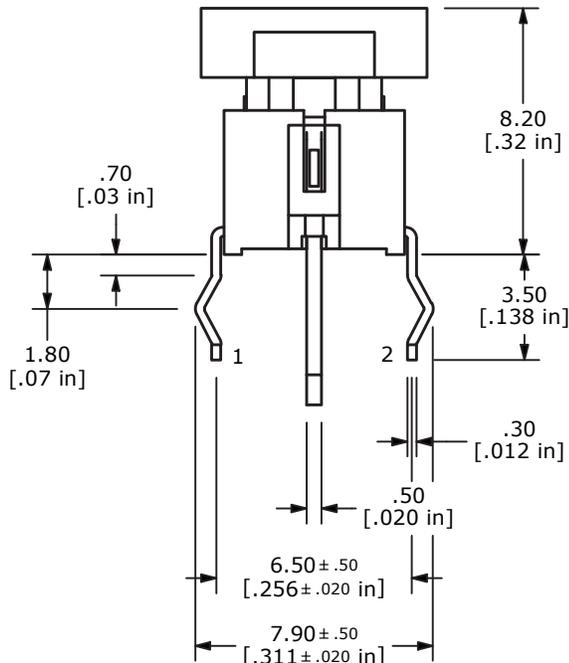
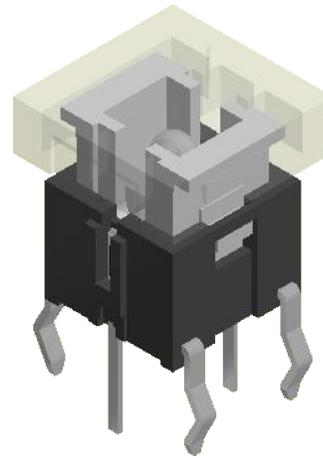
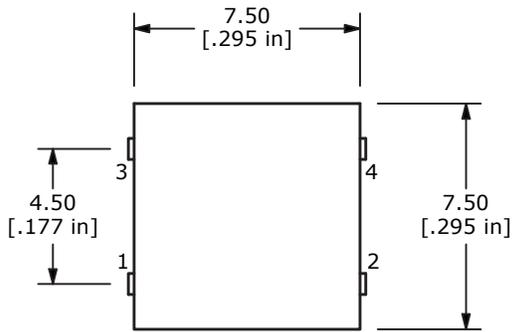
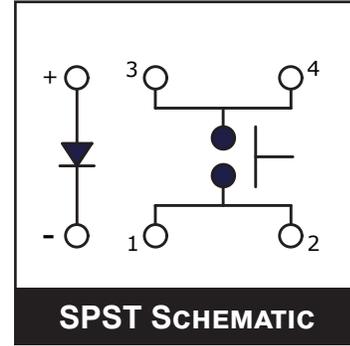
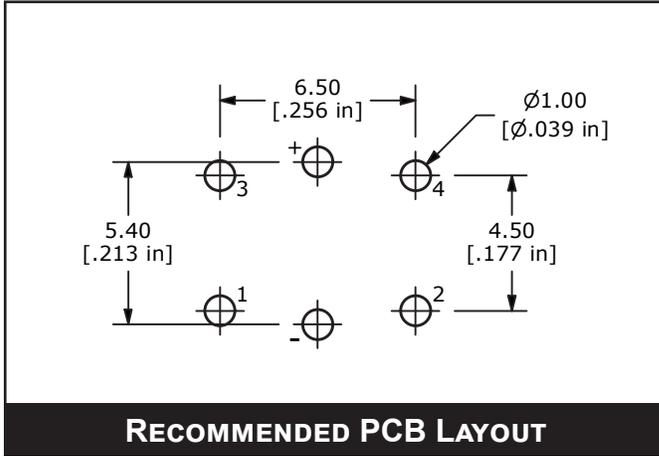


No Cap Option

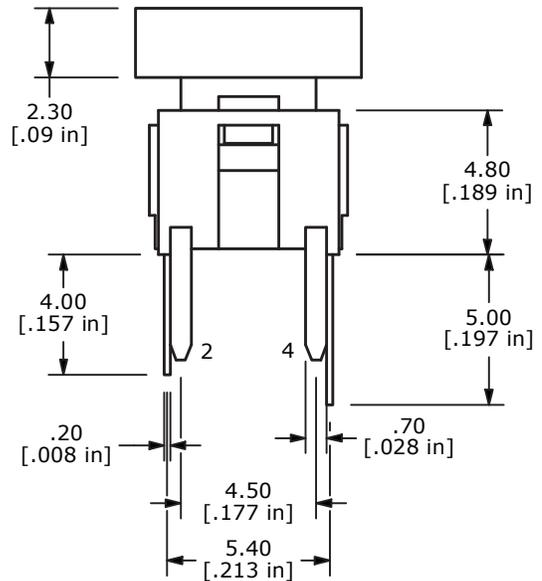


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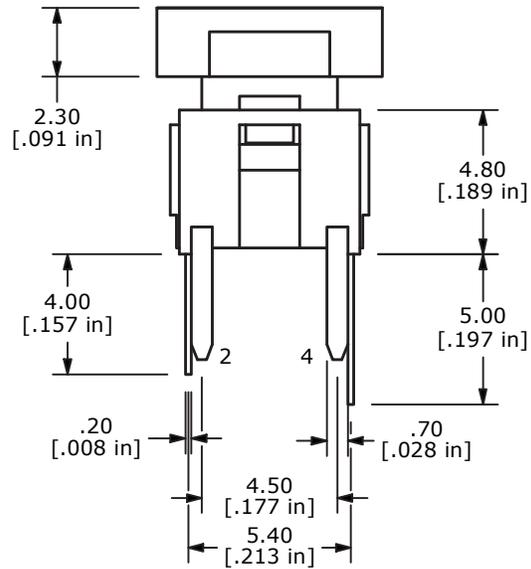
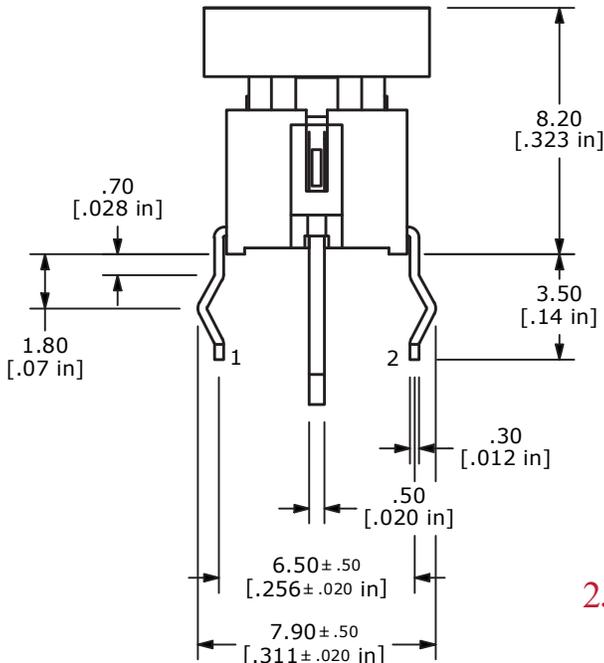
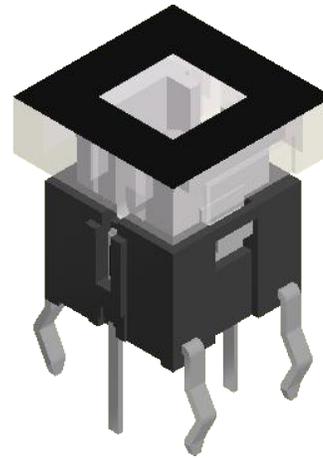
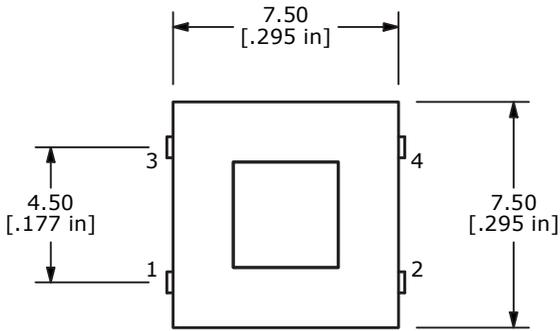
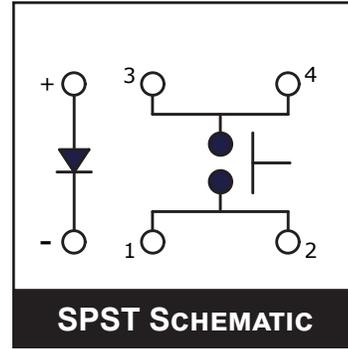
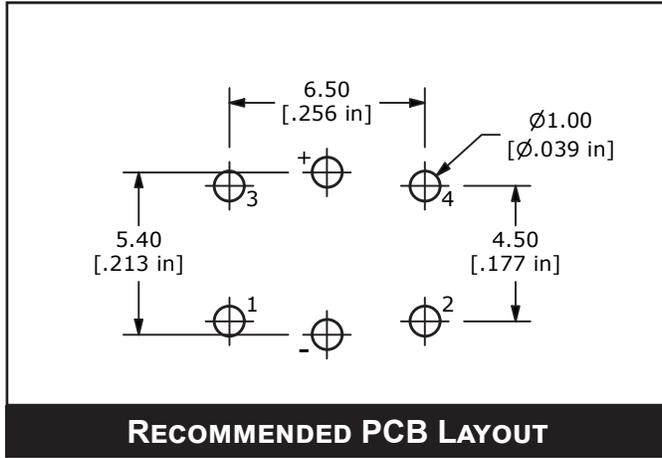


1J Cap Option



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LED CHARACTERISTICS

| PARAMETERS | SYMBOL | YELLOW LED | | RED LED | | GREEN LED | | BLUE LED | | UNITS |
|--|-------------|---------------|------|---------------|------|---------------|------|---------------|------|-------|
| | | MAX. | TYP. | MAX. | TYP. | MAX. | TYP. | MAX. | TYP. | |
| POWER DISSIPATION | P_D | 100 | -- | 100 | -- | 100 | -- | 102 | -- | mW |
| REVERSE VOLTAGE | V_R | 4 | 10 | 4 | -- | 4 | -- | 5 | -- | V |
| PEAK FORWARD CURRENT | I_{PF} | 20 | -- | 30 | -- | 25 | -- | 30 | -- | mA |
| REVERSE CURRENT | I_R | 10 | -- | 10 | -- | 10 | -- | 10 | -- | mA |
| FORWARD VOLTAGE | V_F | 2.8 | 1.8 | 2.3 | -- | 2.8 | -- | 4.2 | -- | V |
| LUMINOUS INTENSITY | I_V | -- | 9 | -- | 25 | -- | 3 | -- | 250 | mcd |
| EMISSION WAVELENGTH | λ_P | -- | 585 | -- | 660 | -- | 557 | -- | 468 | nm |
| OPERATING TEMPERATURE | T_{OP} | -25°C TO 85°C | | -25°C TO 85°C | | -20°C TO 85°C | | -20°C TO 80°C | | C |
| STORAGE TEMPERATURE | T_{ST} | -25°C TO 80°C | | -25°C TO 85°C | | -20°C TO 85°C | | -30°C TO 85°C | | C |
| LEAD SOLDERING TEMPERATURE, 12.0mm (0.063 INCH) FROM BODY) 260°C FOR 5 SECONDS | | | | | | | | | | |
| ELECTRICAL CHARACTERISTICS (=25°C) | | | | | | | | | | |



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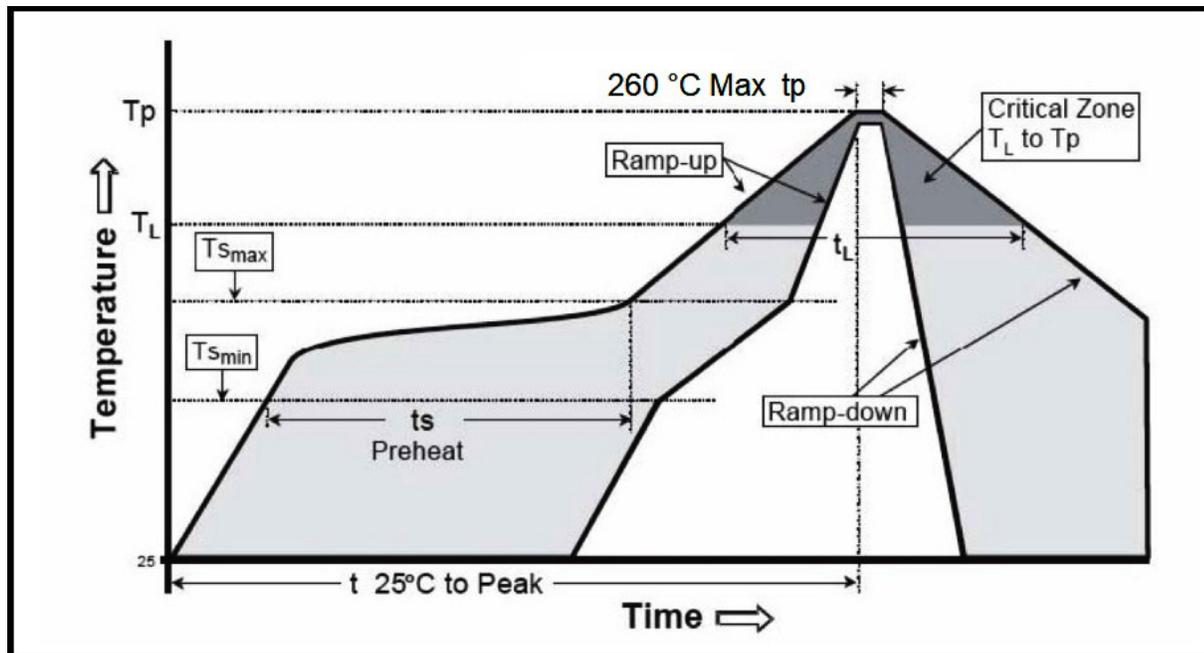
RECOMMENDED SOLDER PROCESS

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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