

TL1240 SERIES TACT SWITCH

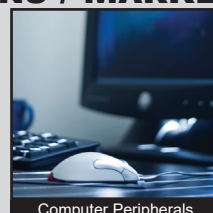
ANTI-VANDAL SWITCHES
DETECTOR SWITCHES
DIP SWITCHES
KEYLOCK SWITCHES
NAVIGATION SWITCHES
PUSHBUTTON SWITCHES
ROCKER SWITCHES
ROTARY SWITCHES
SLIDE SWITCHES
SNAP ACTION SWITCHES
TACTILE SWITCHES
TOGGLE SWITCHES
CAP OPTIONS



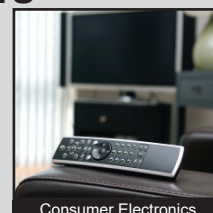
APPLICATIONS / MARKETS



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"/>	<input type="text" value="Q"/>	<input type="text" value="None"/> 1J 2J *	<input type="text" value="None"/> BLK - Black WHT - White CLR - Clear
		Y - Yellow R - Red G - Green B - Blue N - No LED	Q - Silver		

* 2J Cap only available in BLK Cap Color

Specifications subject to change without notice 7.28.2025



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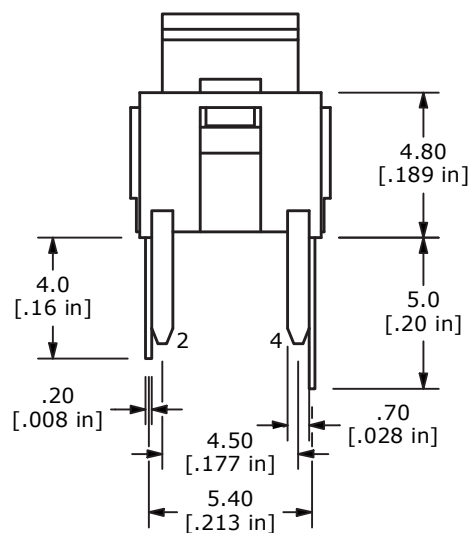
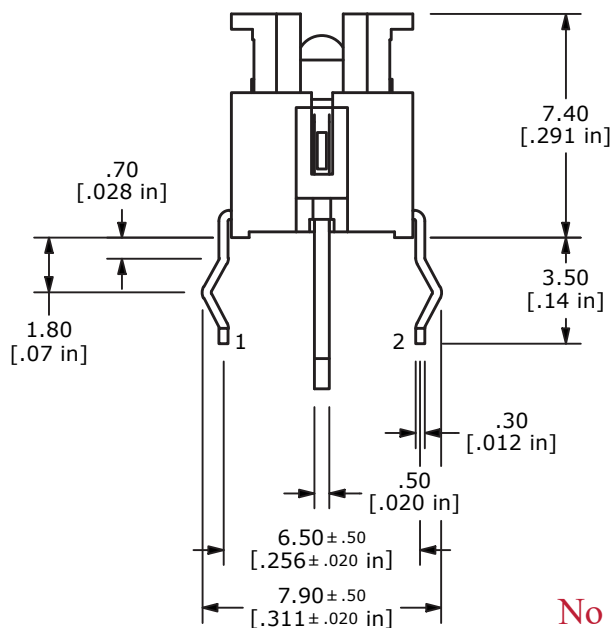
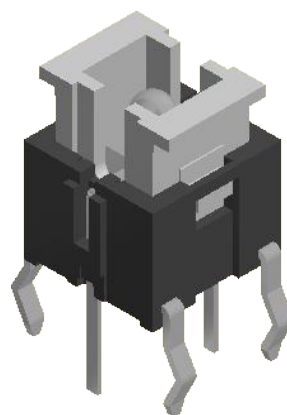
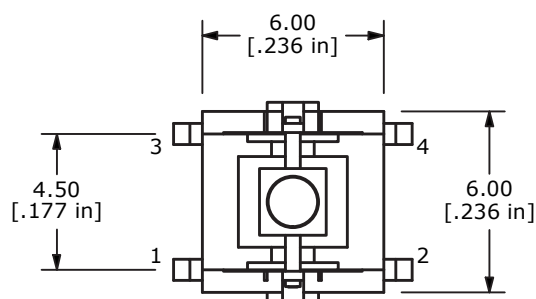
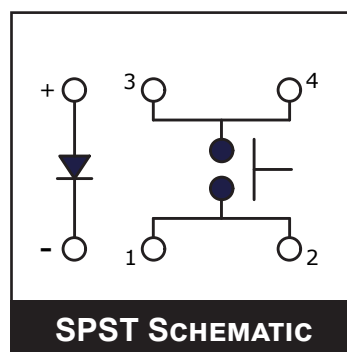
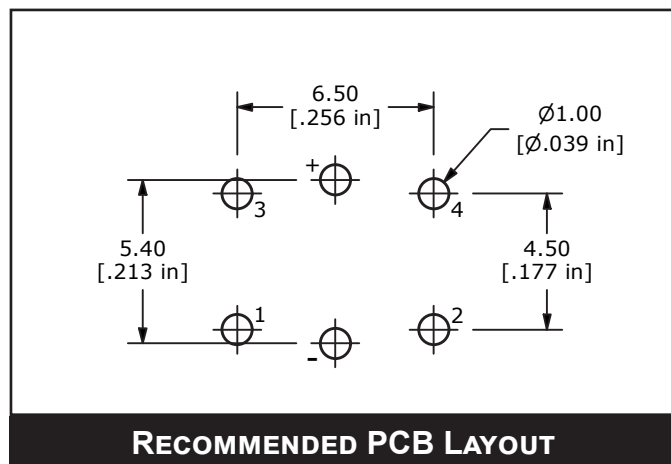
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TL1240 SERIES TACT SWITCH

BODY DIMENSIONS / CAP OPTIONS



No Cap Option



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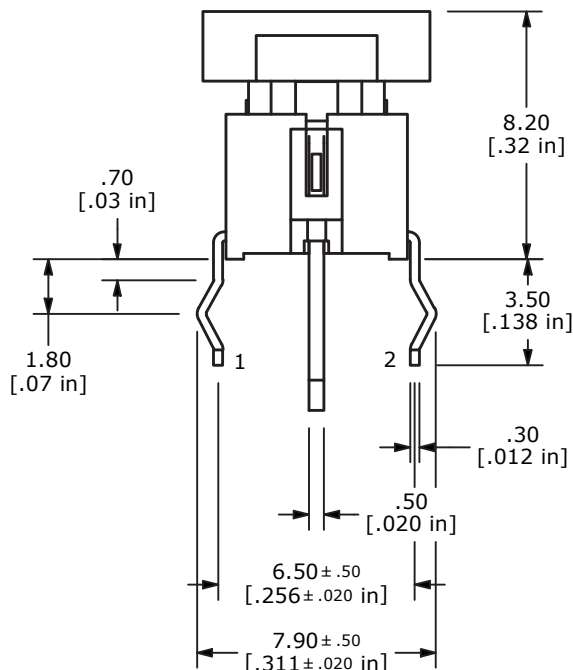
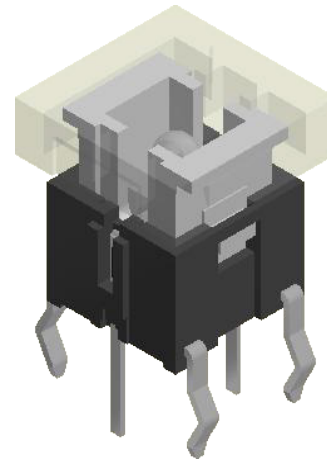
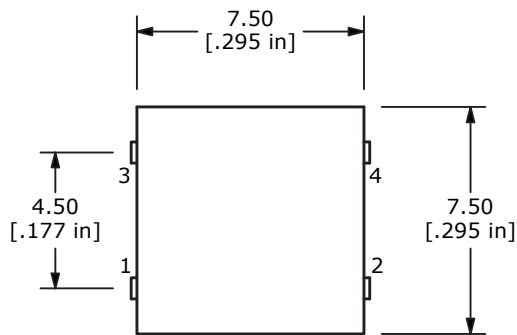
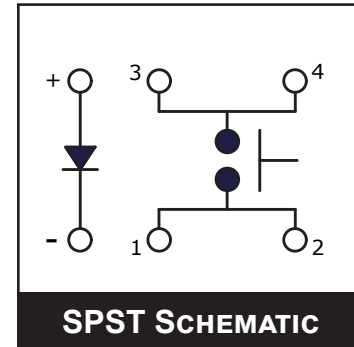
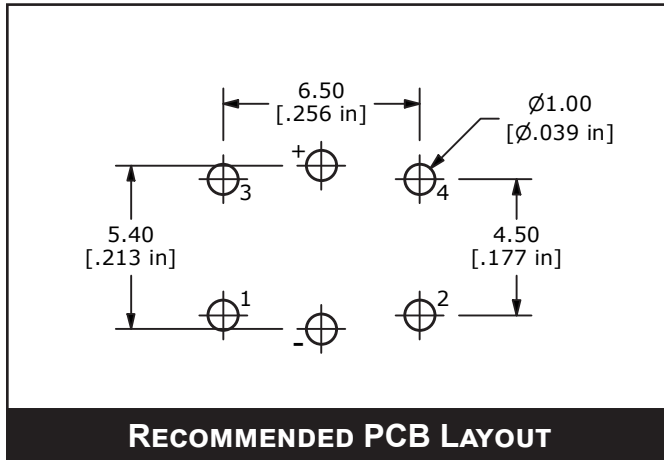
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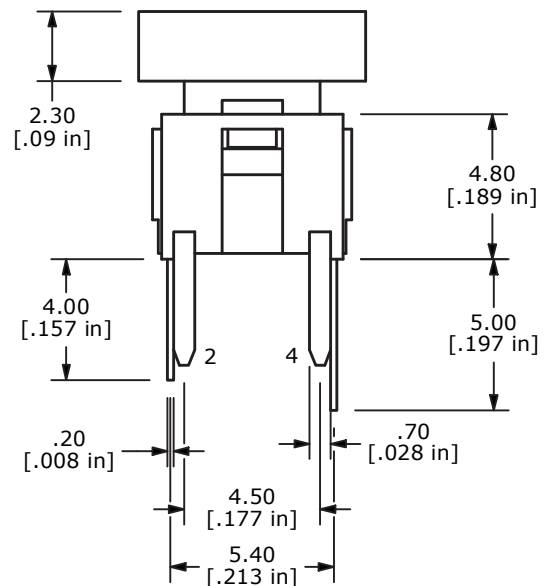
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BODY DIMENSIONS / CAP OPTIONS



1J Cap Option



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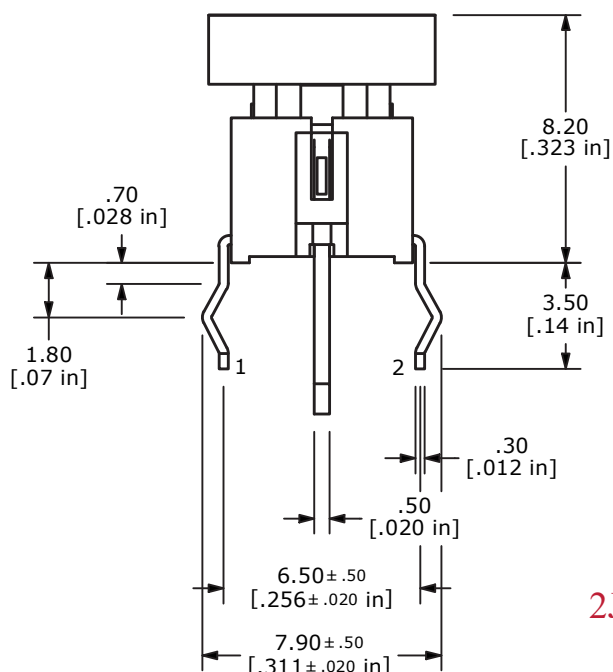
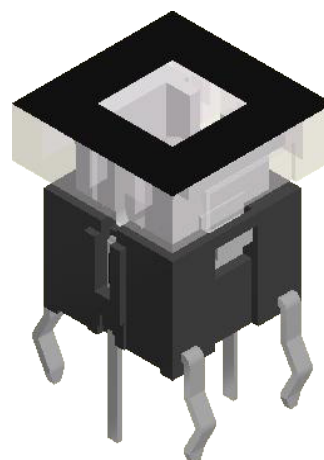
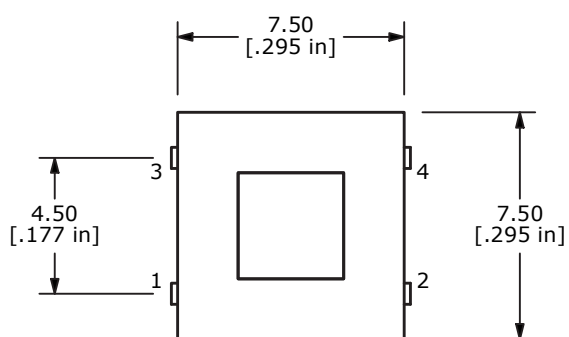
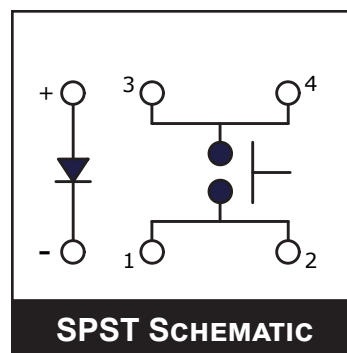
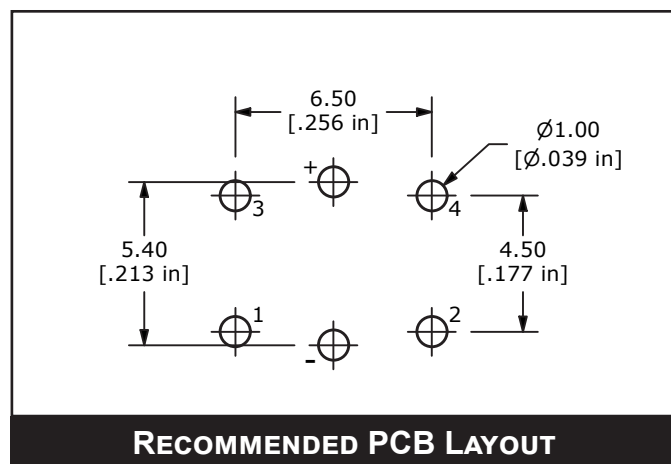
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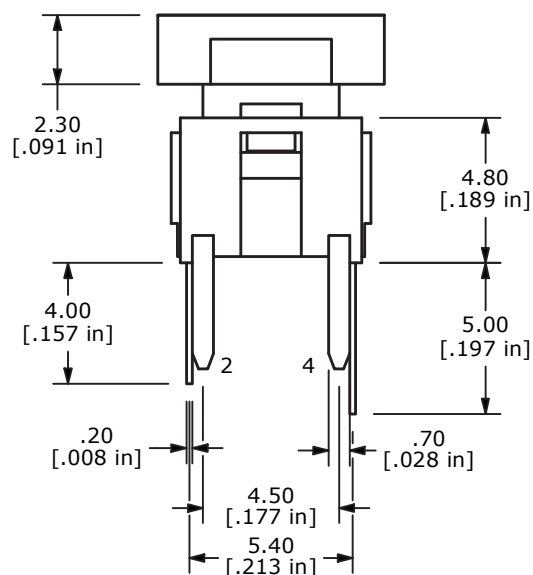
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TL1240 SERIES TACT SWITCH

BODY DIMENSIONS / CAP OPTIONS



2J Cap Option



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LED
CHARACTERISTICS

		YELLOW LED		RED LED		GREEN LED		BLUE LED		
PARAMETERS	SYMBOL	MAX.	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.	TYP.	UNITS
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)										

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.

