

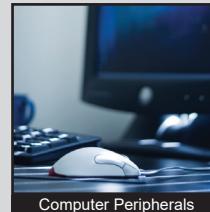
TL1240 SERIES TACT SWITCH

ANTI-VANDAL
SWITCHESDETECTOR
SWITCHESDIP
SWITCHESKEYLOCK
SWITCHESNAVIGATION
SWITCHESPUSHBUTTON
SWITCHESROCKER
SWITCHESROTARY
SWITCHESSLIDE
SWITCHESSNAP ACTION
SWITCHESTACTILE
SWITCHESTOGGLE
SWITCHESCAP
OPTIONS

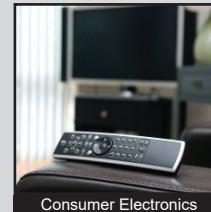
APPLICATIONS / MARKETS



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

Y - Yellow
R - Red
G - Green
B - Blue
N - No LED



Contact Material

Q - Silver



Cap

None
1J
2J *



Cap Color

None
BLK - Black
WHT - White
CLR - Clear

* 2J Cap only available in BLK Cap Color

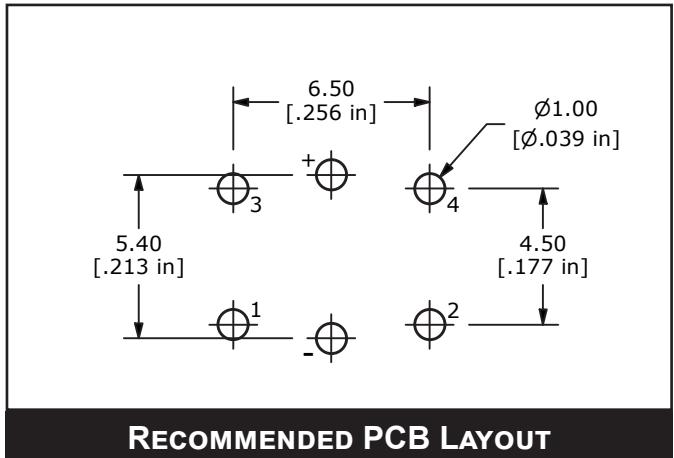
Specifications subject to change without notice 7.28.2025

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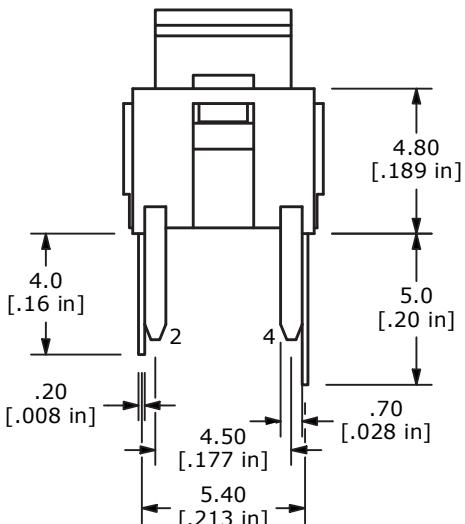
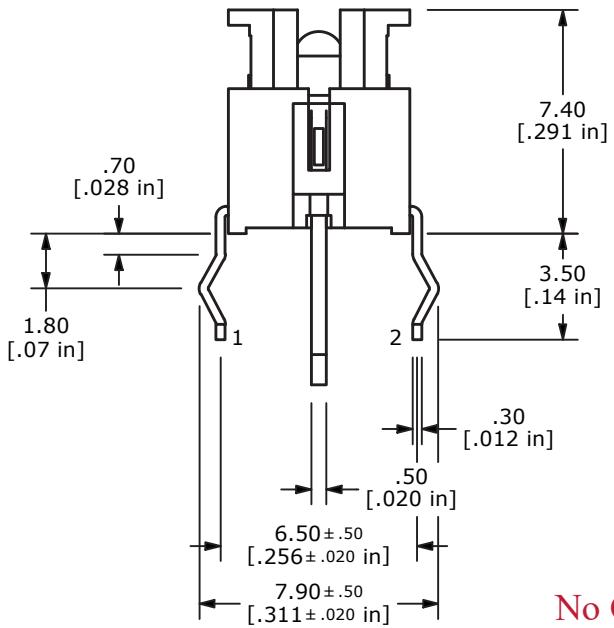
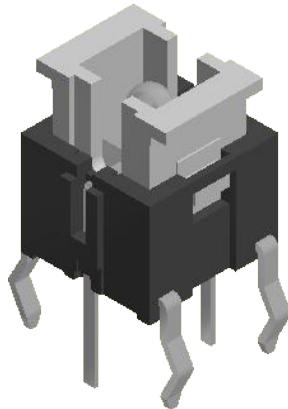
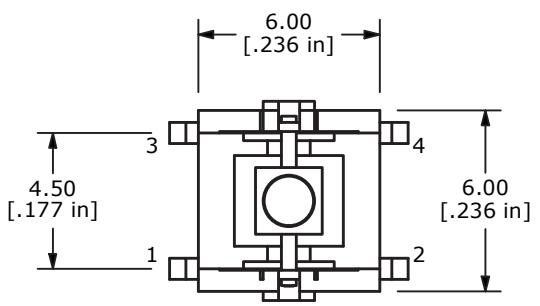
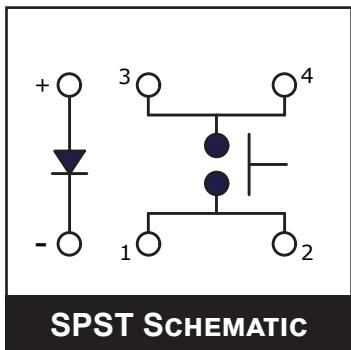
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TL1240 SERIES TACT SWITCH

BODY DIMENSIONS / CAP OPTIONS



RECOMMENDED PCB LAYOUT



No Cap Option

ANTI-VANDAL
SWITCHES

DETECTOR
SWITCHES

DIP
SWITCHES

KEYLOCK
SWITCHES

NAVIGATION
SWITCHES

PUSHBUTTON
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TOGGLE
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OPTIONS



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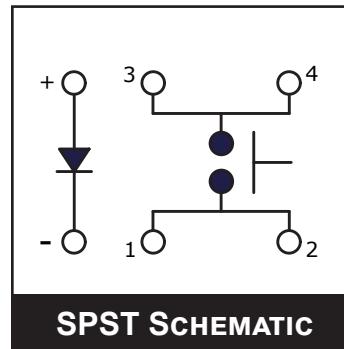
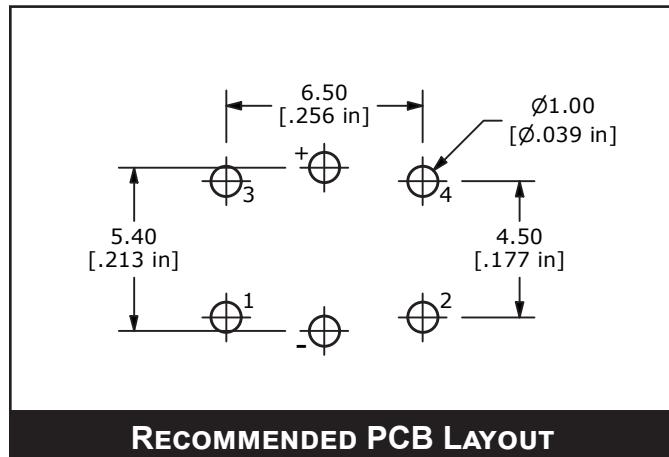
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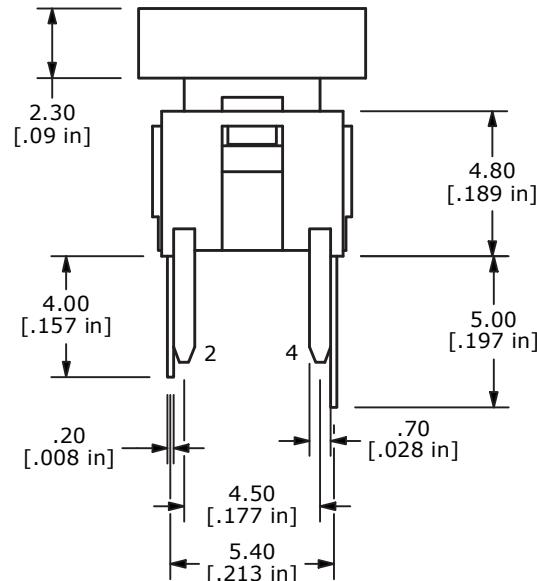
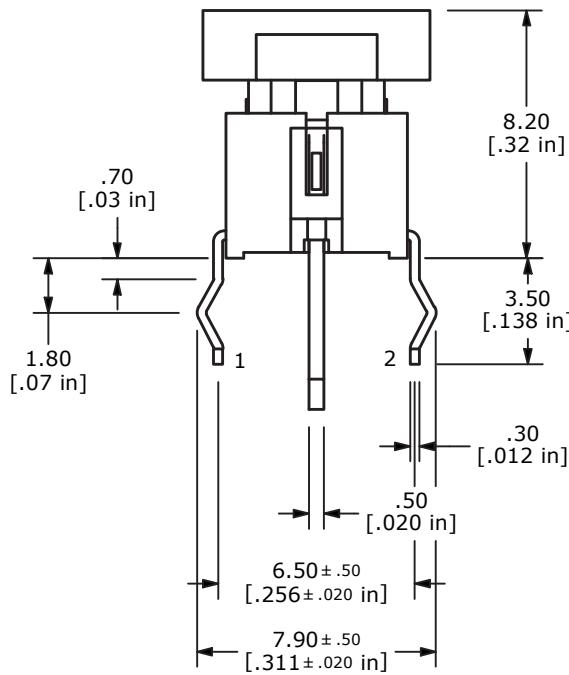
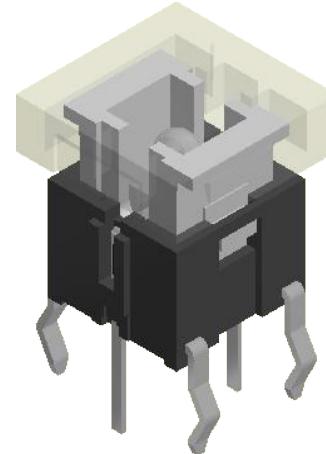
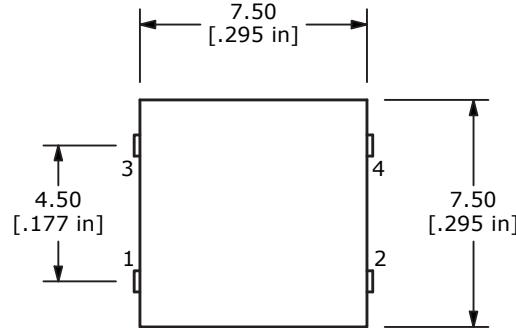
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RECOMMENDED PCB LAYOUT



1J Cap Option



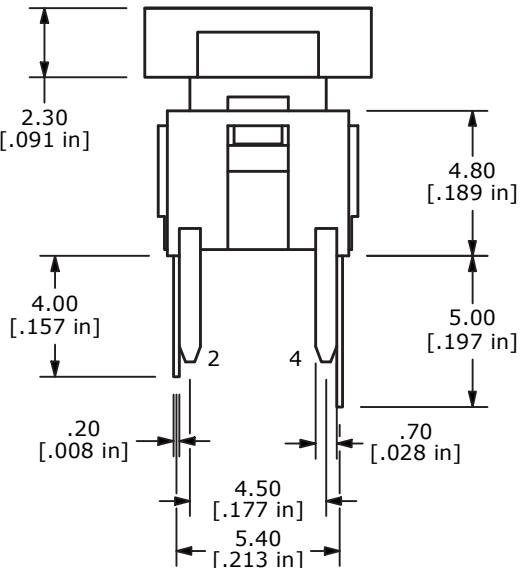
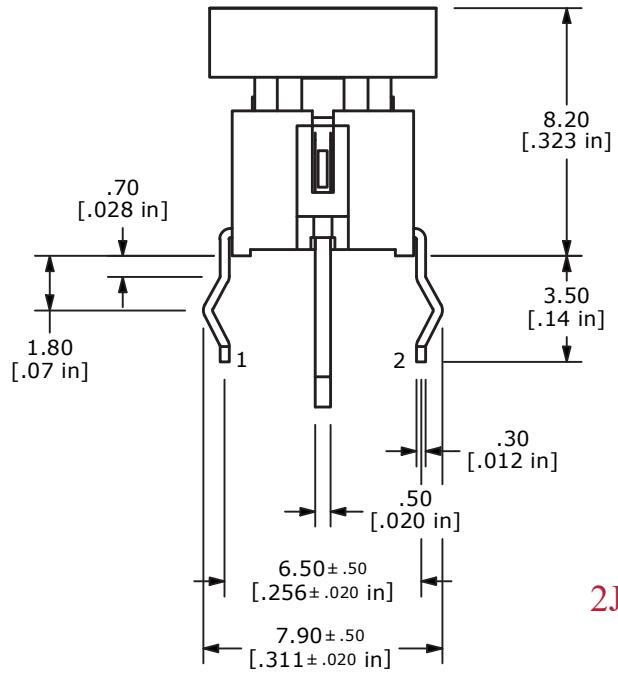
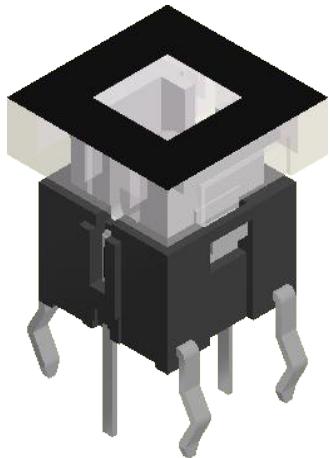
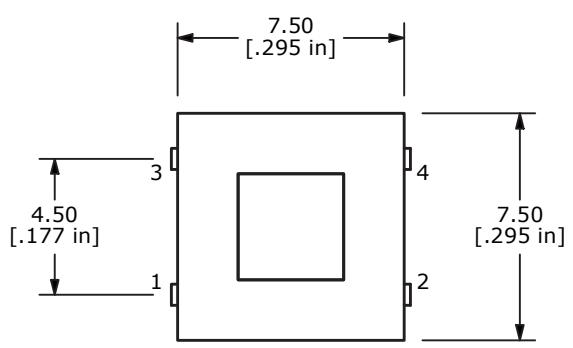
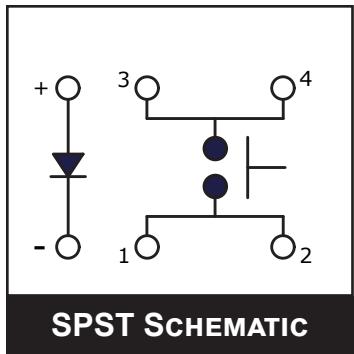
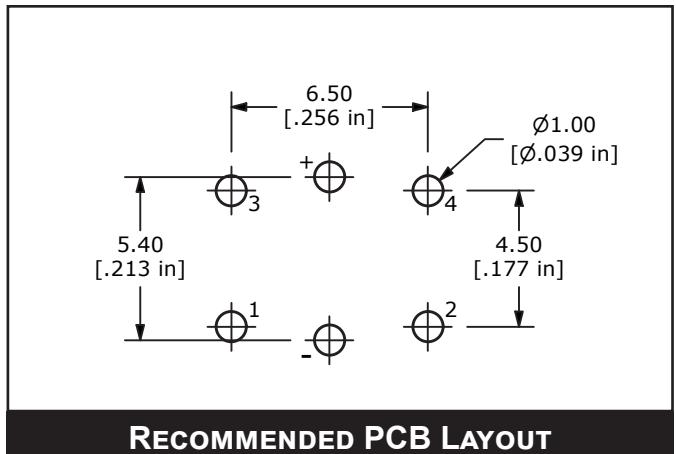
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BODY DIMENSIONS / CAP OPTIONS



2J Cap Option



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TL1240 SERIES TACT SWITCH

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.

