

TL3220 SERIES TACT SWITCH



SPECIFICATIONS

Contact Arrangement: SPST
Contact Rating Options: 12 VDC @ 50mA
Contact Resistance: 500mΩ MAX.
Insulation Resistance: 100MΩ @ 500VDC
Dielectric Strength: 250VAC for 1 minute
Electrical Life: 100,000 Cycles
Mechanical Life: 100,000 Cycles
Operating Temperature: -40°C to +85°C
Travel: 0.20mm
Contact Material: Gold Flash over Phosphor Bronze
Moisture Protection: IP5X
Actuation Force: 160 +/-50 gf
Bounce: 5ms MAX.

FEATURES & BENEFITS

RGB Illumination
Low profile
Surface mount design
Tap and Reel packaging

PART NUMBER CONFIGURATOR

Series

TL3220

Actuator
Type

A - 2.0mm

Operating
Force

F160 - 160gf

LED
Color

RGB - RGB

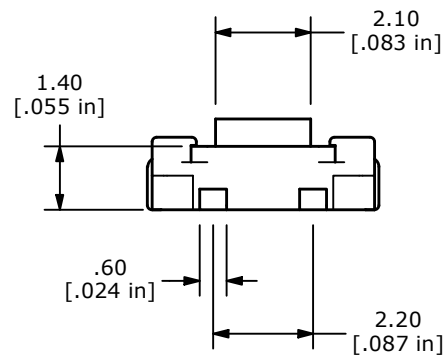
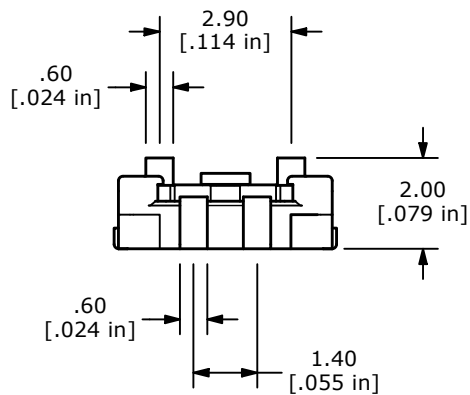
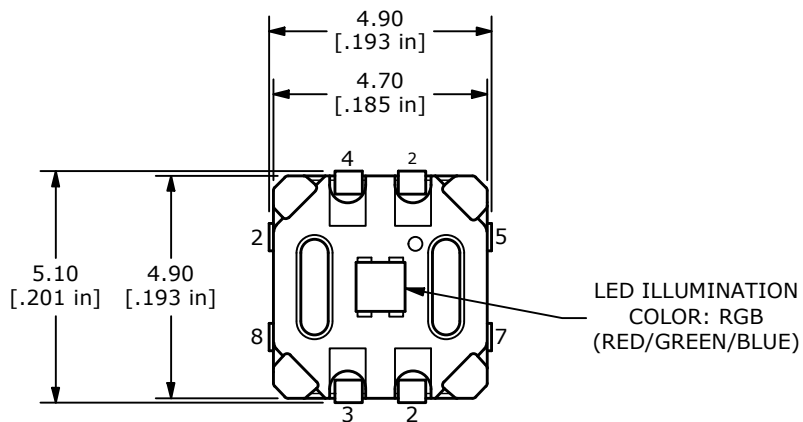
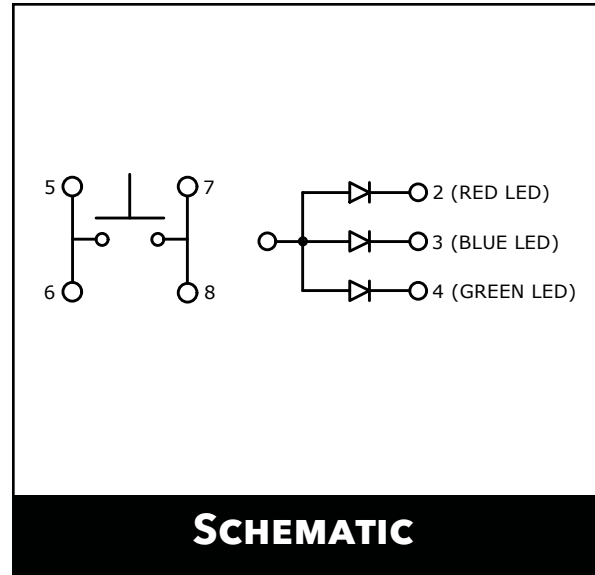
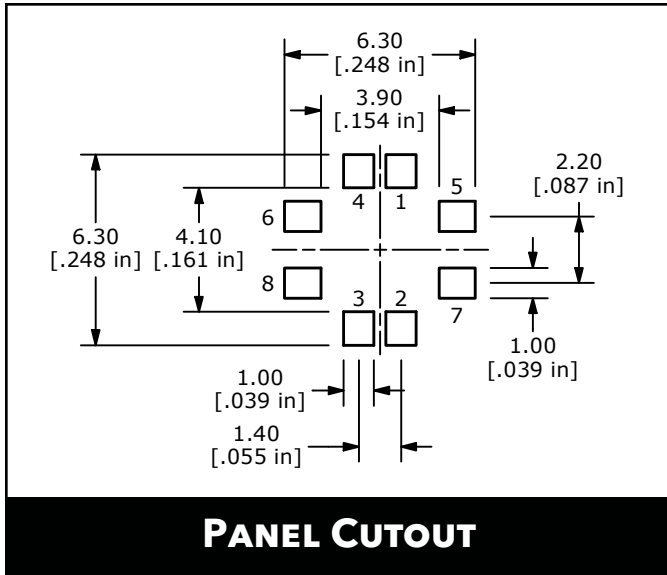
Plating

R - Gold



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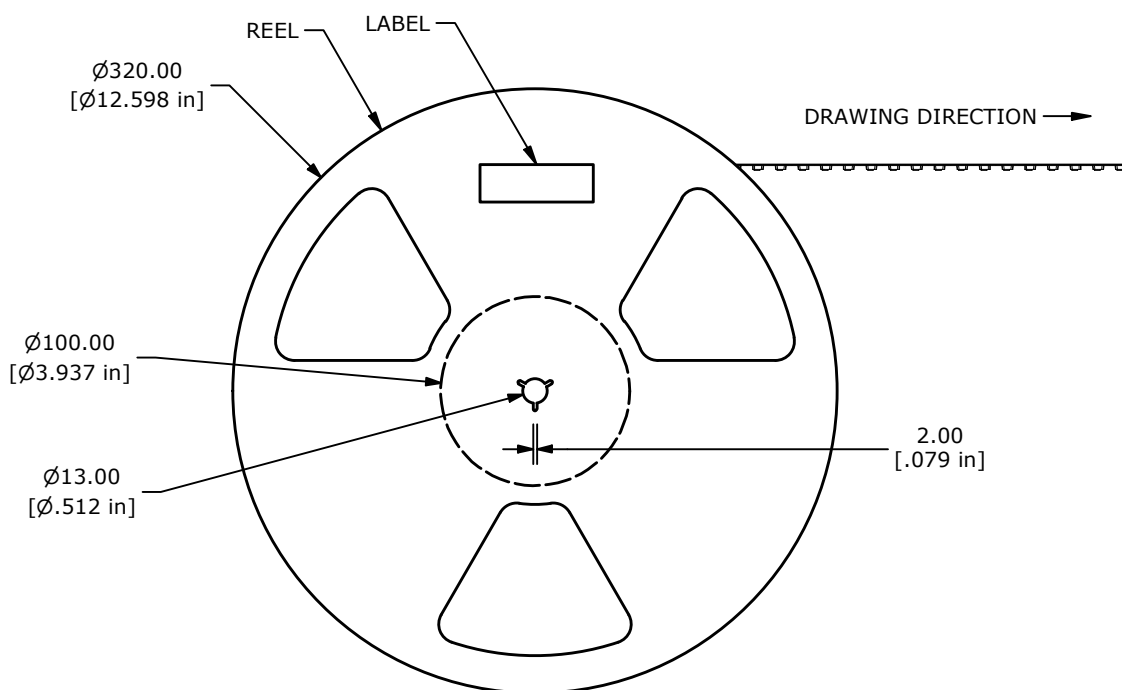
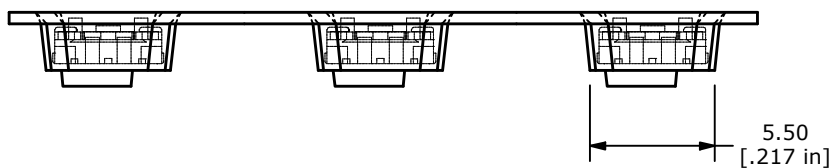
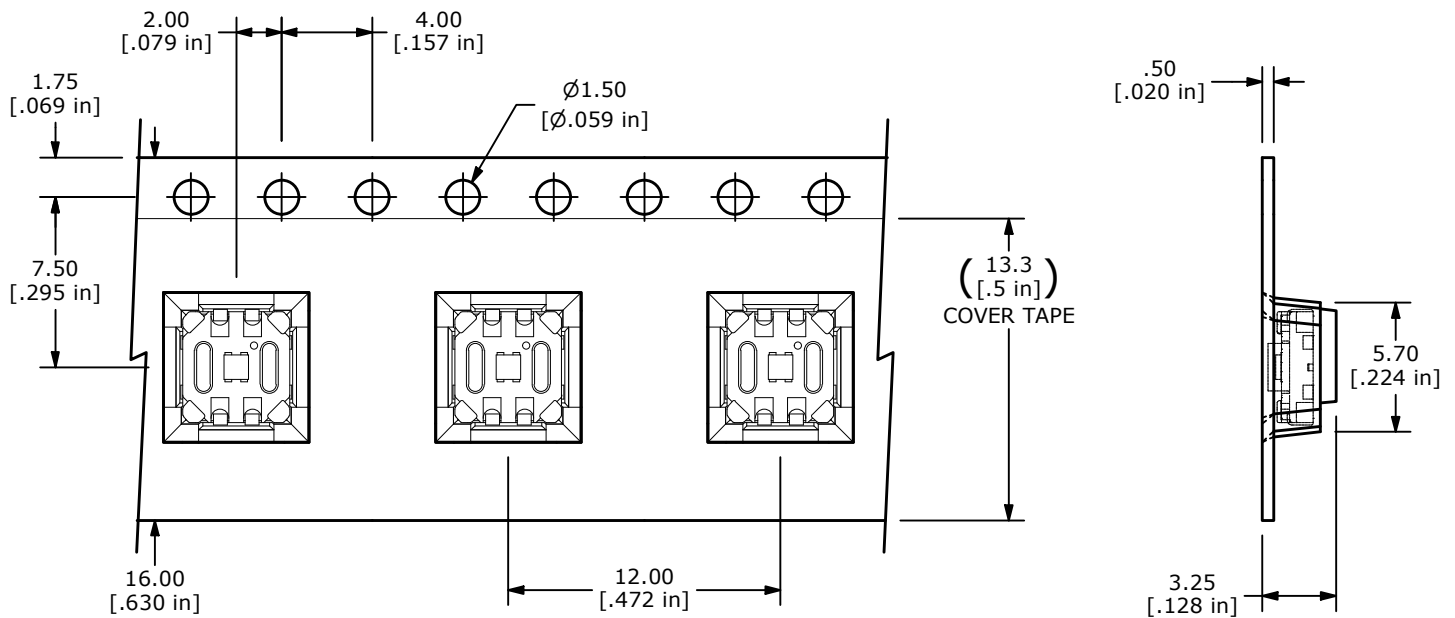
BODY DIMENSIONS





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TAPE AND REEL



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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_{smax} to T_p)	3 °C/second max.	3 °C/second max.
Preheat		
-Temperature Min (T_{smin})	100 °C	150 °C
-Temperature Max (T_{smax})	150 °C	200 °C
-Time (t_{smin} to t_{smax})	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.

