

TL6059 SERIES TACT SWITCH



SPECIFICATIONS

Contact Arrangement: SPST
Contact Rating: 12 VDC @ 50mA
Contact Resistance: 100mΩ MAX.
Insulation Resistance: 100MΩ @ 500VDC
Dielectric Strength: 250VAC for 1 minute
Operating Temperature: -30°C to +85°C
Travel: 0.20mm ± 0.10mm
Contact Material: Silver
Moisture Protection: IP67
Actuation Force: 100 ± 30gf, 1,000,000 cycles
 160 ± 50gf, 100,000 cycles
 200 ± 50gf, 100,000 cycles

FEATURES & BENEFITS

Designed for automatic feed
Radial lead packaging
IP67 moisture protection

PART NUMBER CONFIGURATOR

Series

TL6059

Actuator
"L" dimension

A - 4.30mm
B - 7.00mm

Actuation
Force

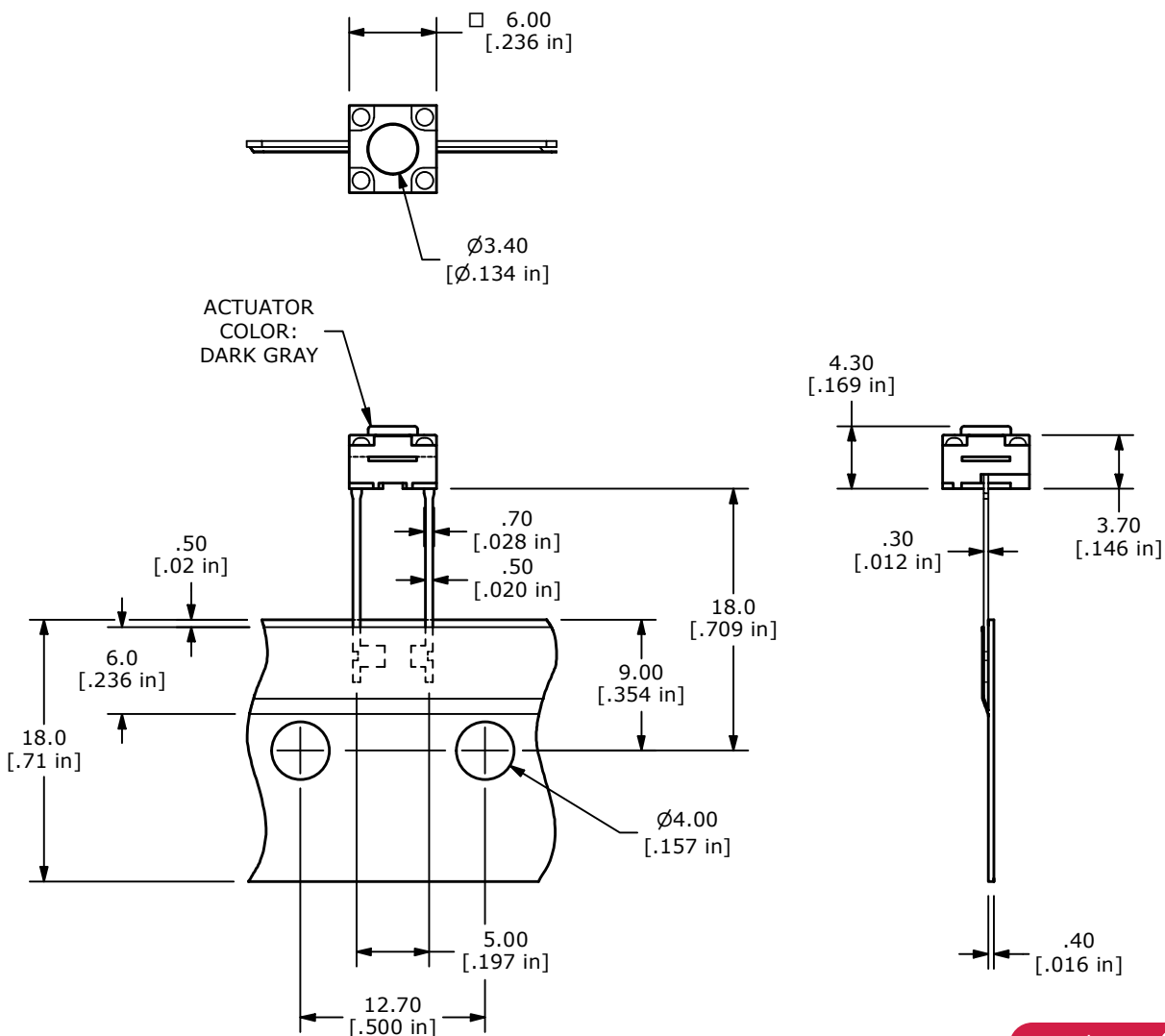
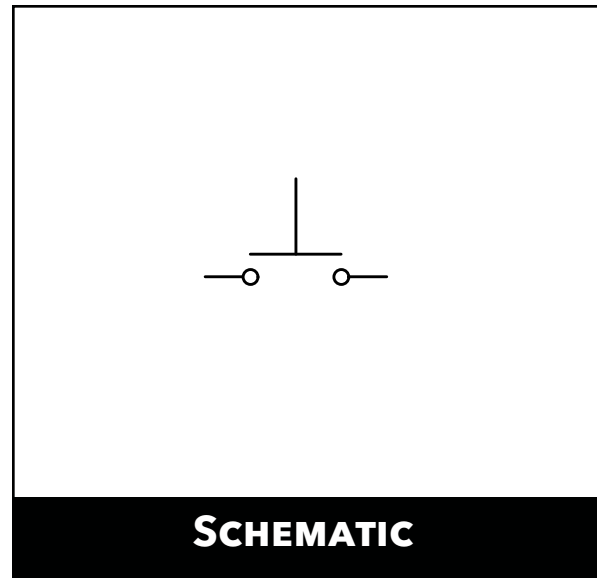
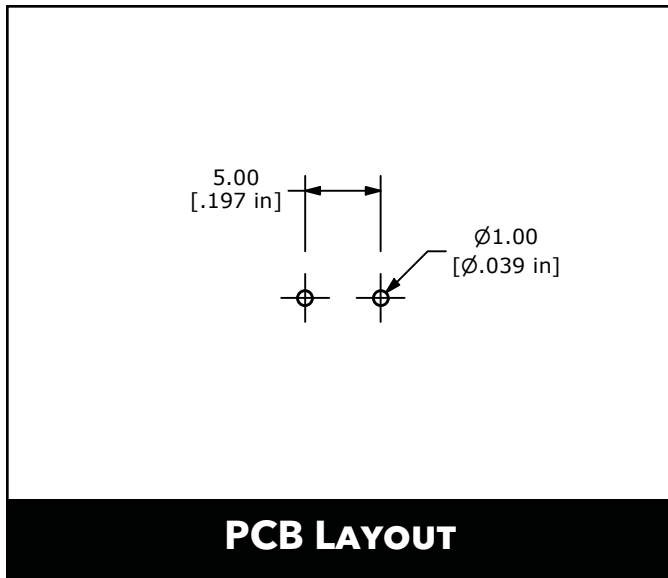
F100 - 100gf
F160 - 160gf
F200 - 200gf

Contact
Material

Q - Silver

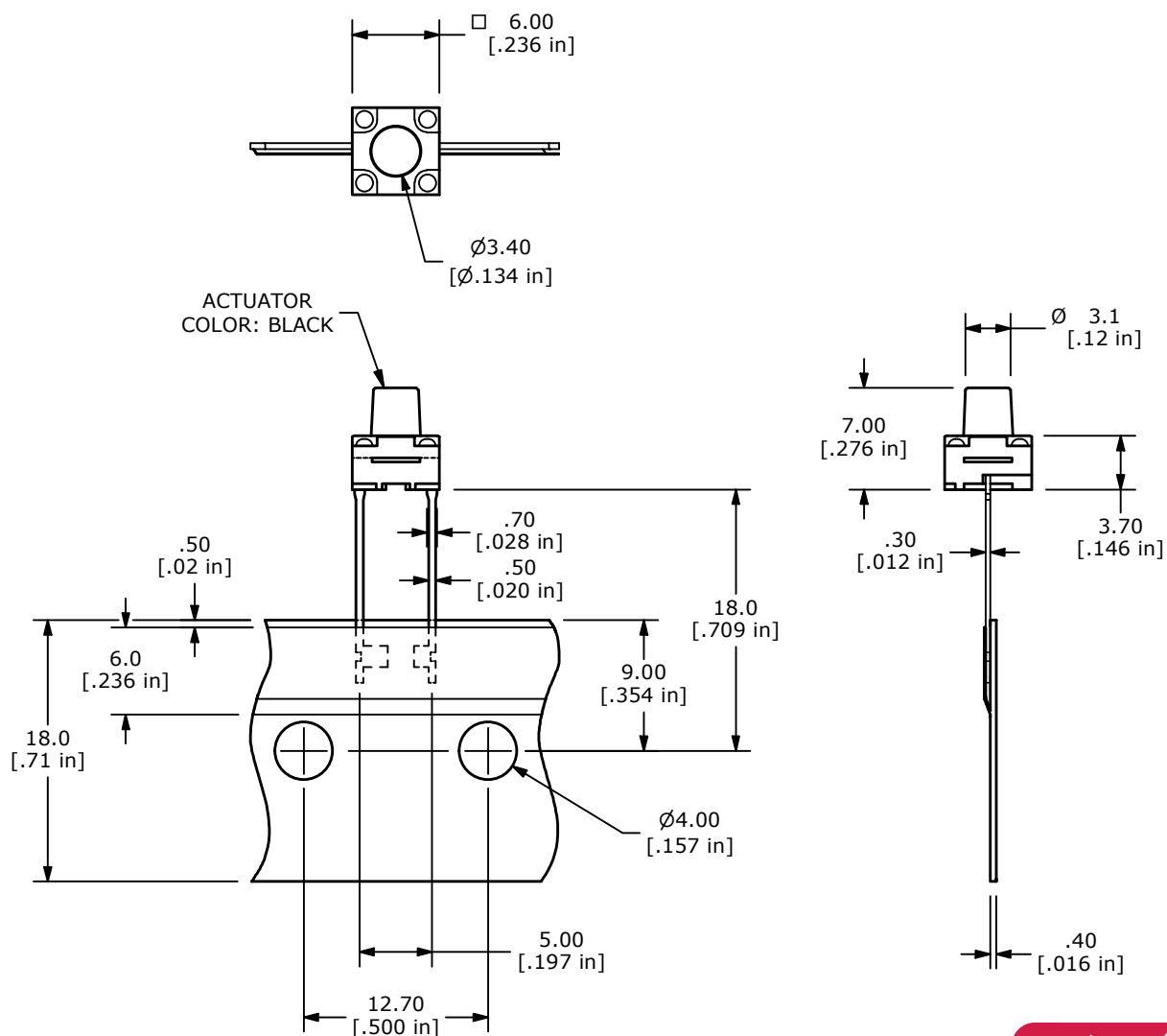
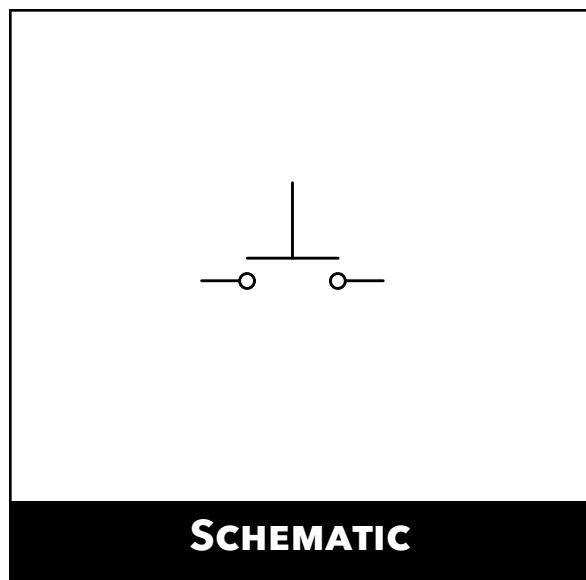
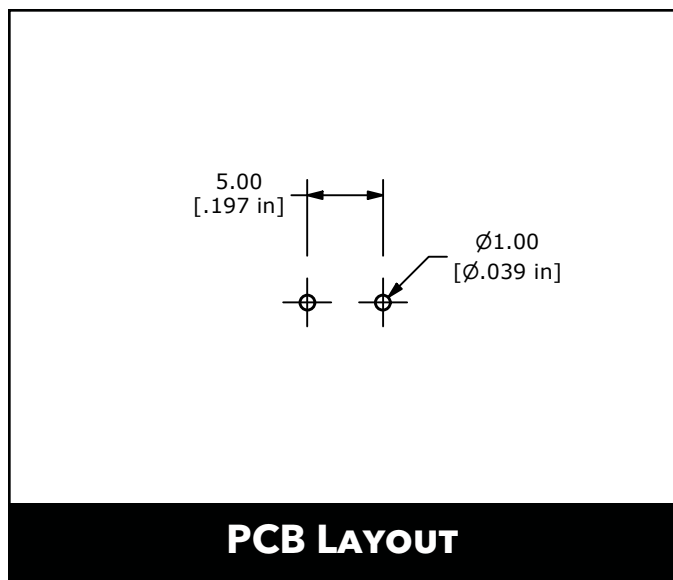
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ACTUATOR A BODY DIMENSIONS



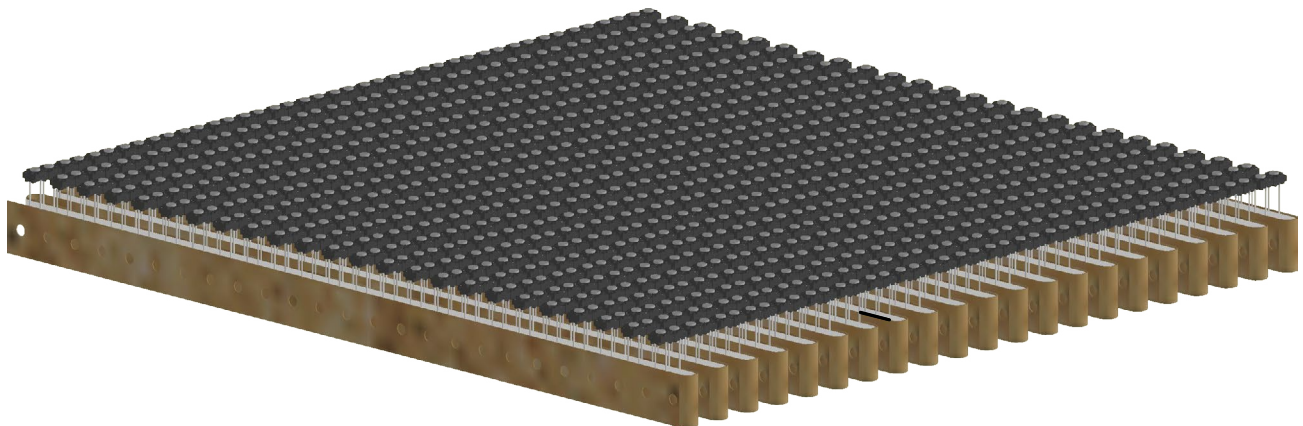
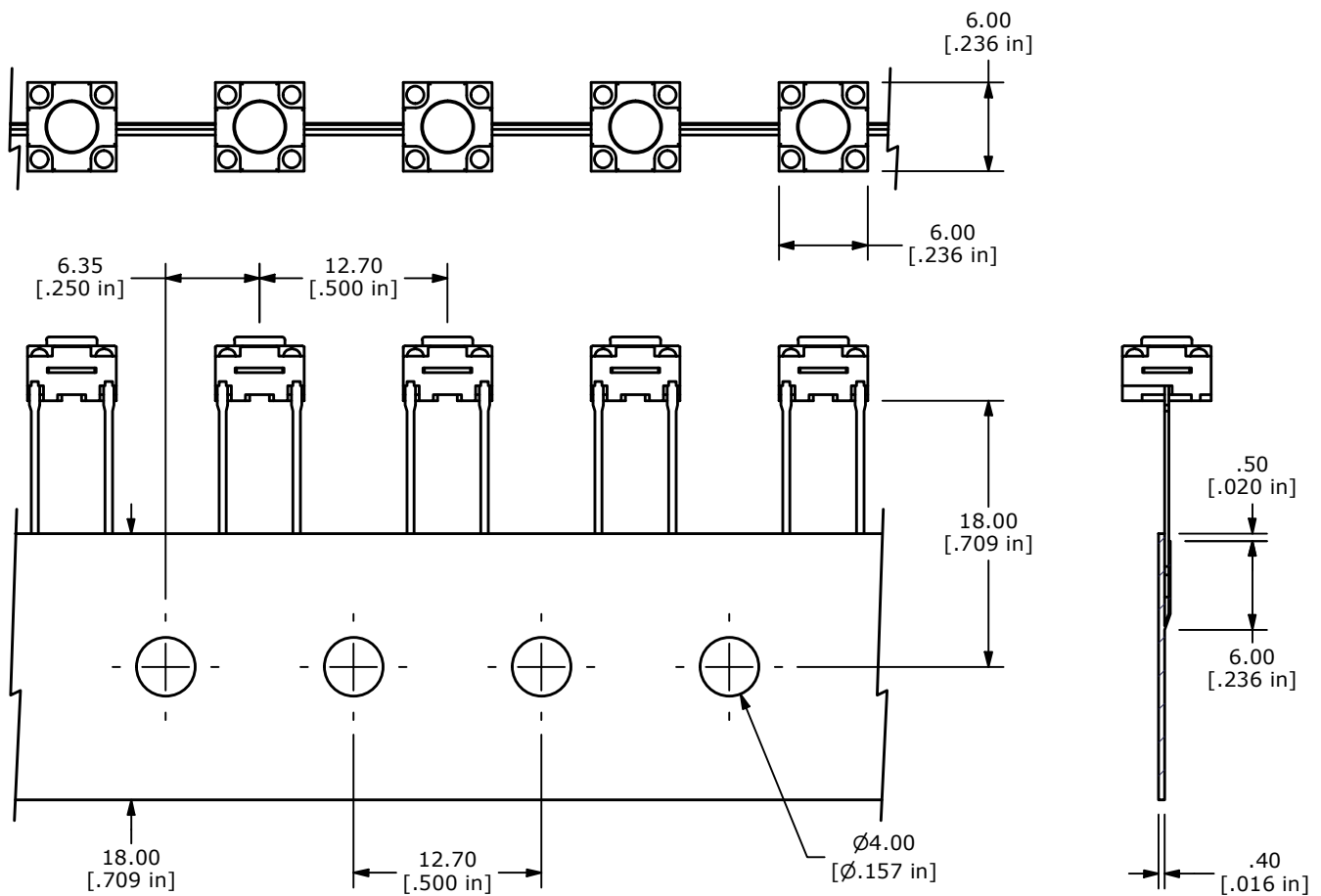
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ACTUATOR B BODY DIMENSIONS



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RADIAL LEAD



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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.

