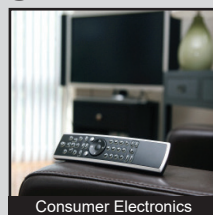


CAP OPTIONS	TOGGLE SWITCHES	TACTILE SWITCHES	SNAP ACTION SWITCHES	SLIDE SWITCHES	ROTARY SWITCHES	ROCKER SWITCHES	PUSHBUTTON SWITCHES	NAVIGATION SWITCHES	KEYLOCK SWITCHES	DIP SWITCHES	DETECTOR SWITCHES	ANTI-VANDAL SWITCHES
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RoHS

FEATURES & BENEFITS

- Up to 100,000 cycle life expectancy
- Tape and Reel packaging
- Surface mount design
- Actuation force options

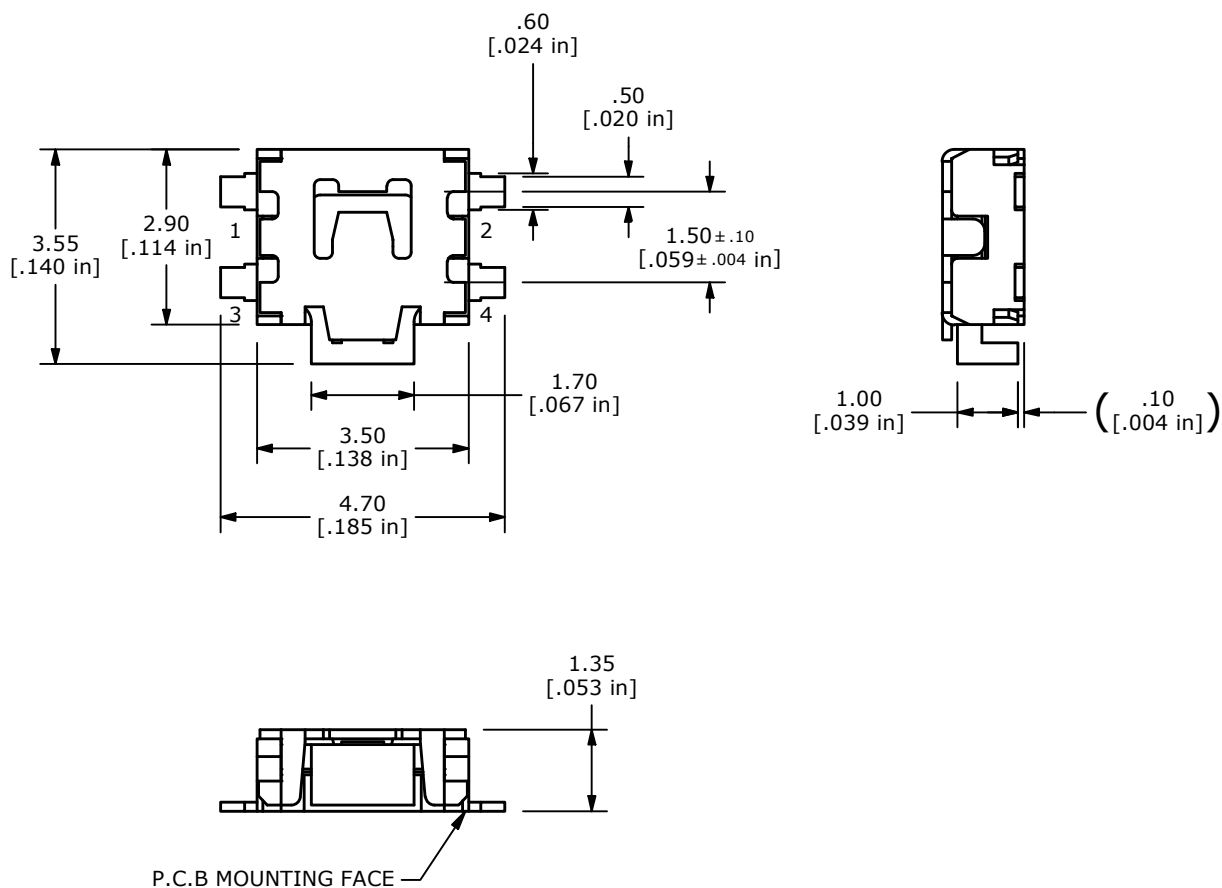
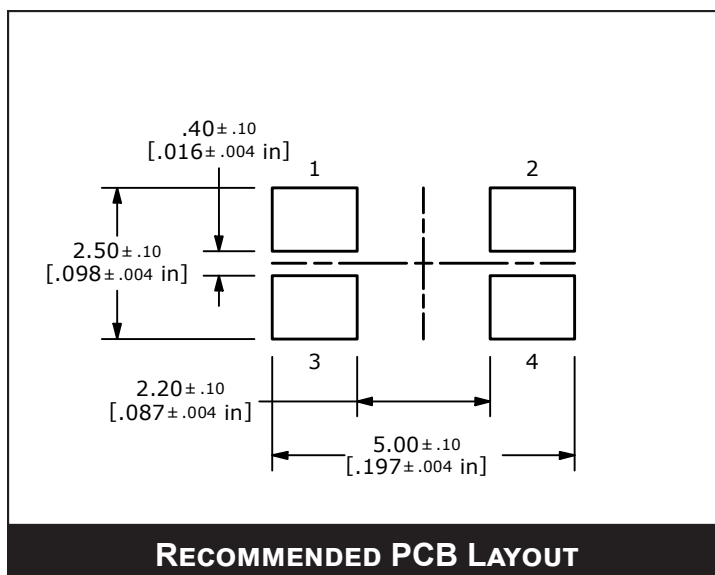
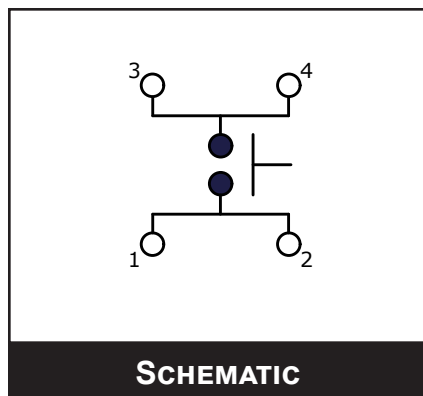
PART NUMBER CONFIGURATOR

Series	Circuit	Bosses	Ground Terminal	Actuation Force	Contact Plating	Termination
TL	1016	A - Without Bosses B - With Bosses	A - Without Ground Terminal B - With Ground Terminal	F160 - 160 gf - Black F220 - 220 gf - White	Q - Silver	G - Gull-wing

Specifications subject to change without notice 5.4.2022

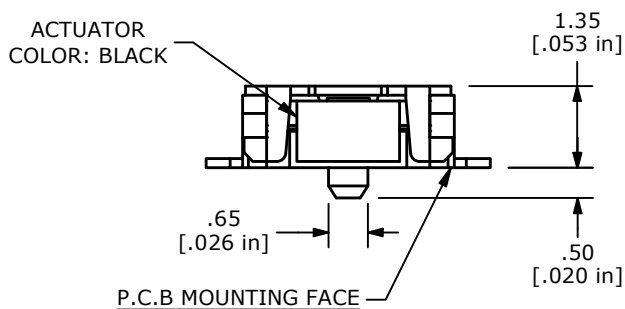
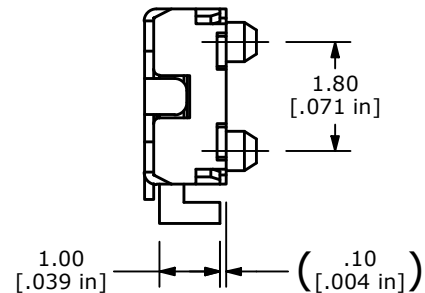
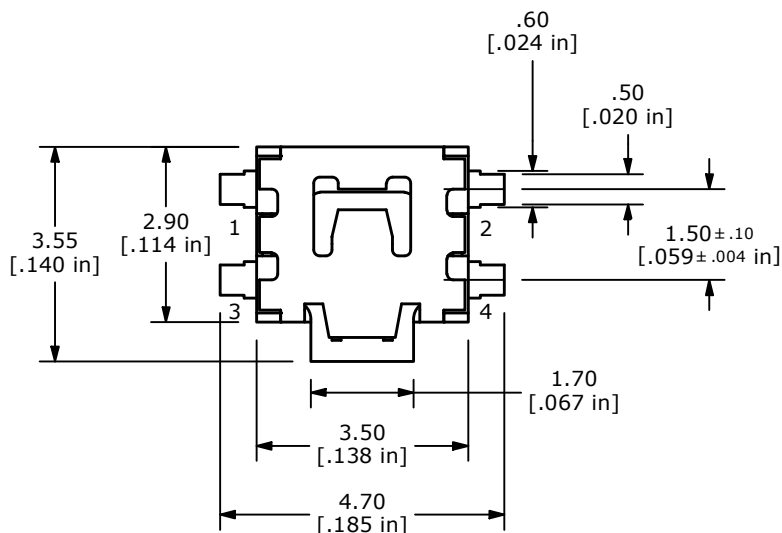
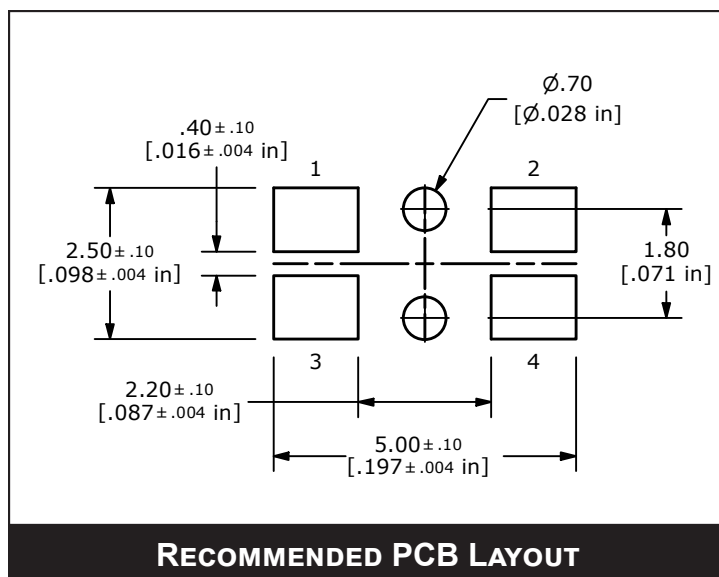
TL1016 SERIES TACT SWITCH

BODY DIMENSIONS WITHOUT BOSSES AND GROUND TERMINAL



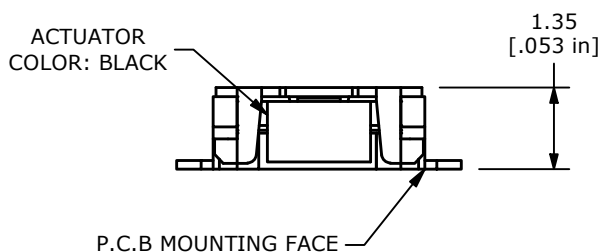
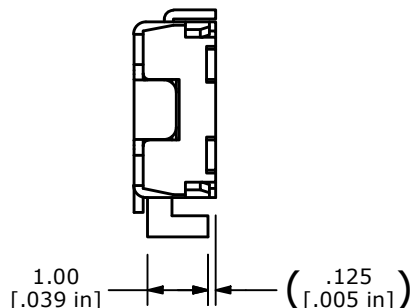
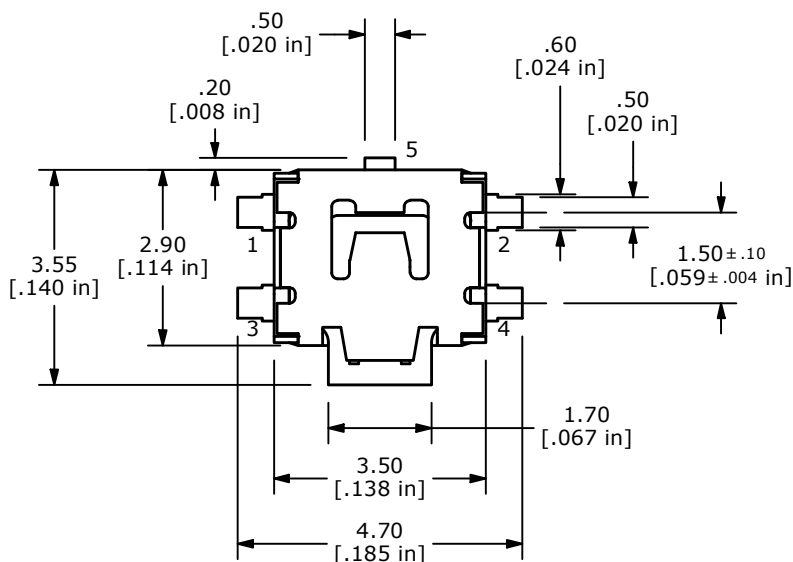
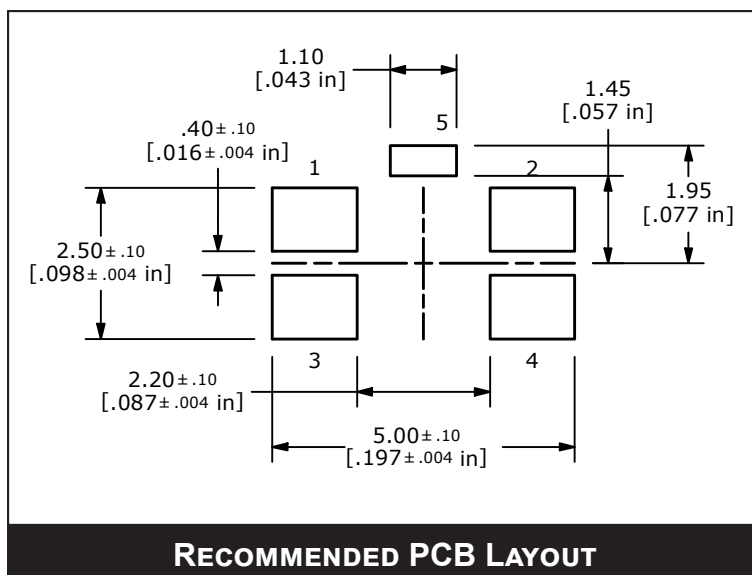
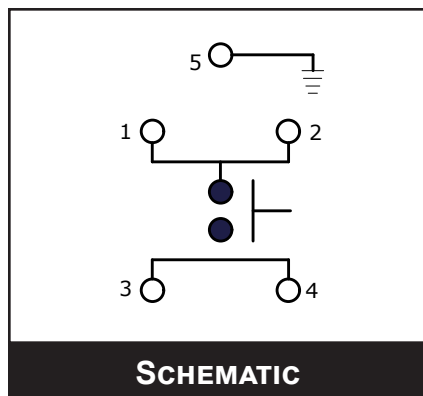
CAP	TOGGLE SWITCHES	TACTILE	SNAP ACTION SWITCHES	SLIDE SWITCHES	ROTARY SWITCHES	ROCKER SWITCHES	PUSHBUTTON SWITCHES	NAVIGATION SWITCHES	DIP SWITCHES	DETECTOR SWITCHES	ANTI-VANDAL SWITCHES
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SCHEMATIC



TL1016 SERIES TACT SWITCH

BODY DIMENSIONS WITH GROUND TERMINAL AND WITHOUT BOSSES



E-SWITCH®

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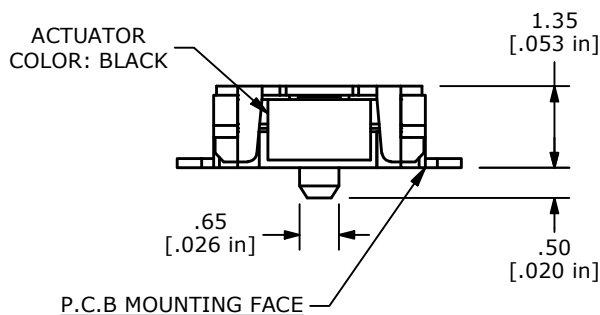
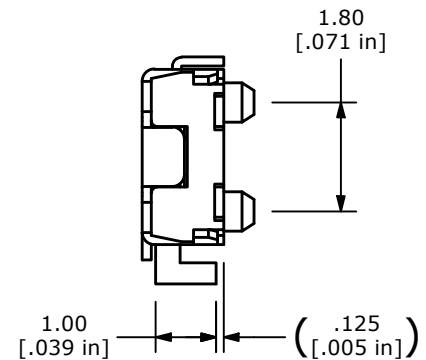
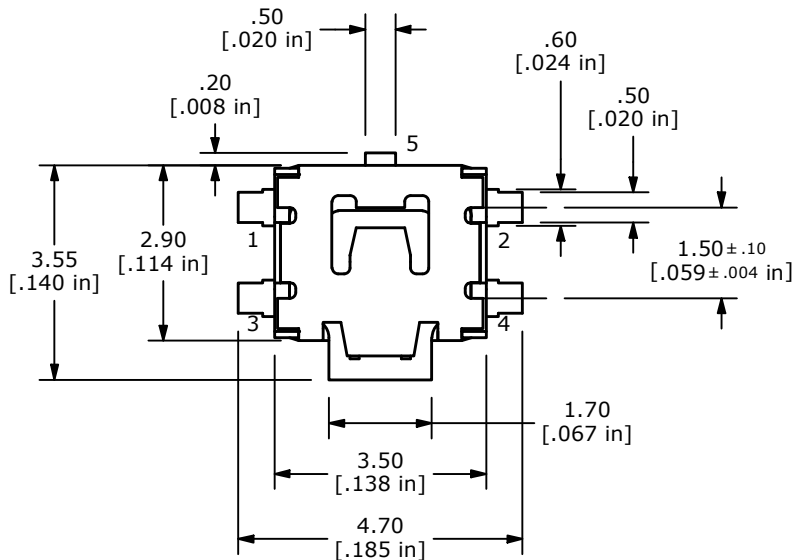
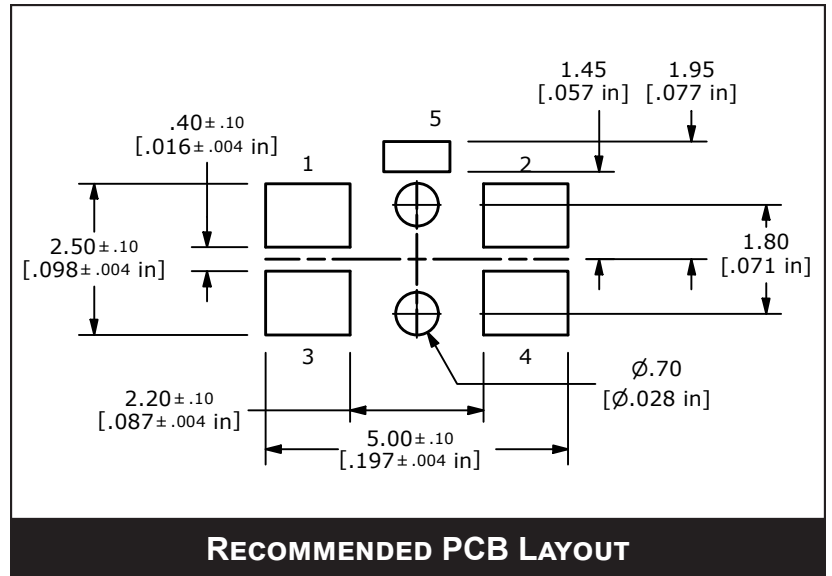
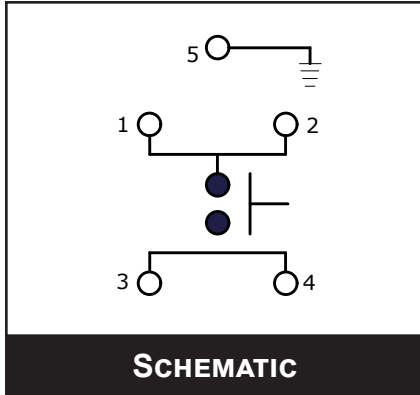
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4

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

TL1016 SERIES TACT SWITCH

BODY DIMENSIONS WITH BOSSES AND GROUND TERMINAL



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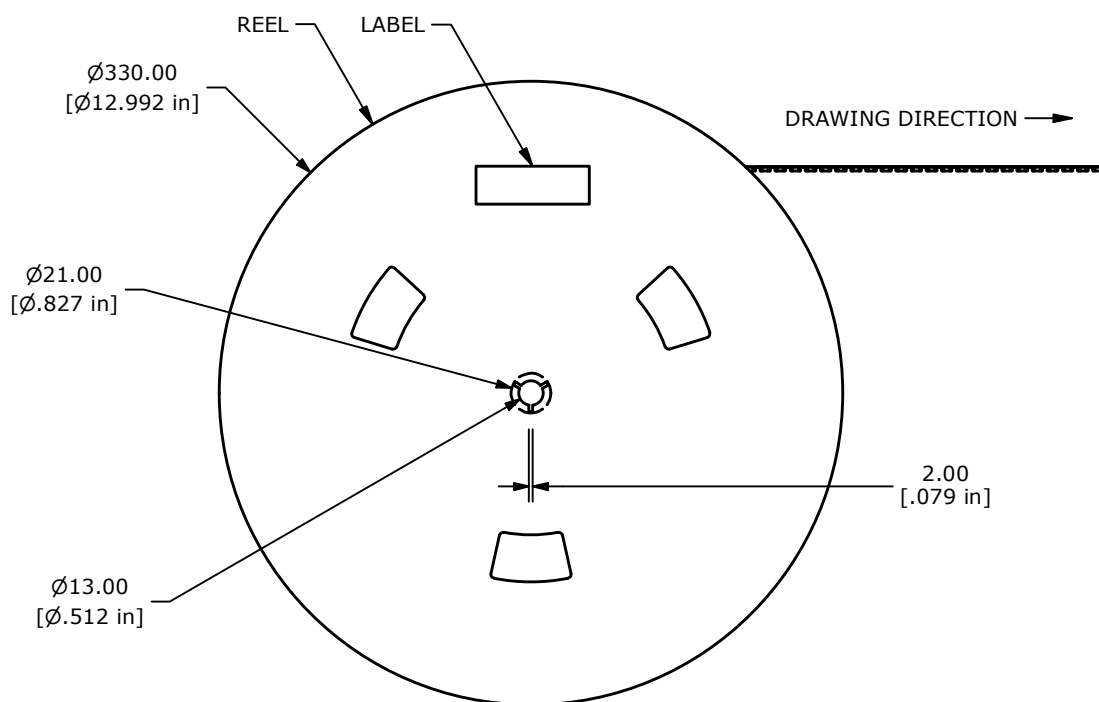
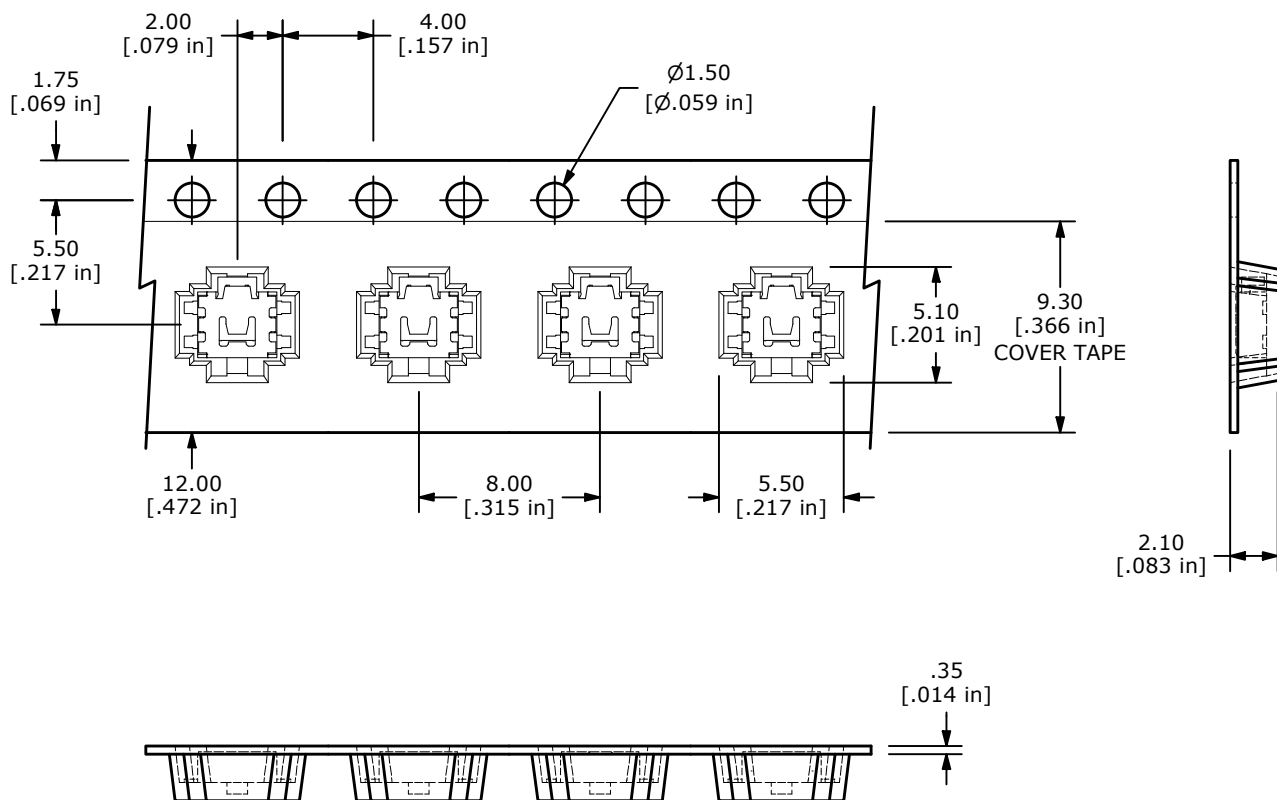
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5

TL1016 SERIES TACT SWITCH

BODY DIMENSIONS TAPE AND REEL



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6

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

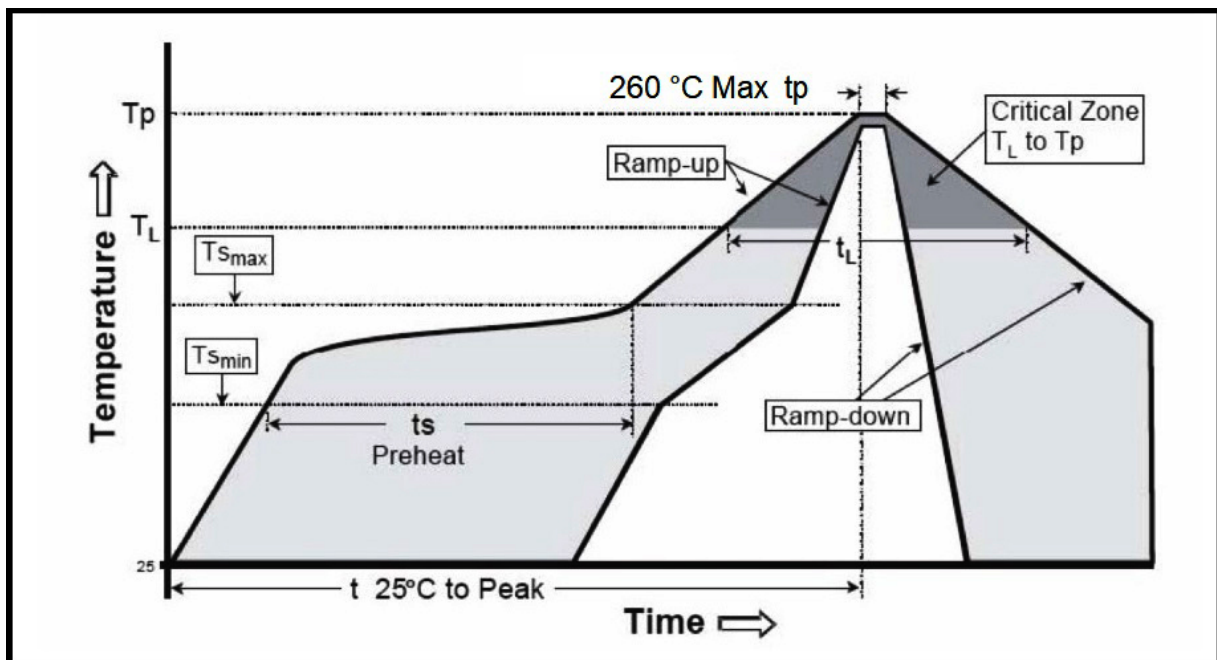
RECOMMENDED SOLDER PROCESS

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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