

RoHS Compliant

## Specifications

Electrical Ratings	50mA @ 12VDC
Electrical Life	500,000 cycles
Contact Resistance	≤50mΩ initial
Actuation Force	200 ± 80gF; 450 ± 150gF
Actuation Travel	0.25 ± 0.10mm

Dielectric Strength	250Vrms min
Insulation Resistance	≥1000MΩ min
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Sealing Degree	IP67

## Materials

Cover, Metal	Stainless Steel
Actuator	6T Nylon
Base	6T Nylon
Seal	Rubber, Silicone
Contact, Dome	Stainless Steel, Silver Plated
Terminals	Copper Alloy, Silver Plated

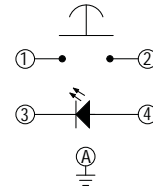
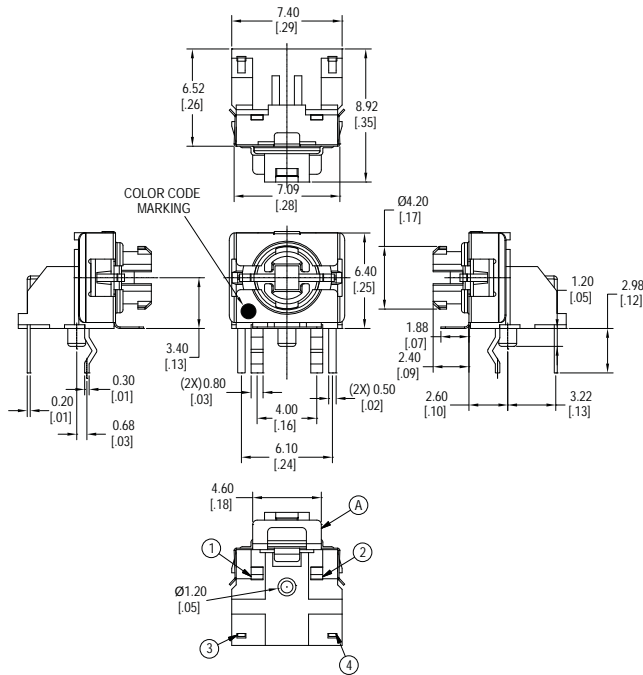
## LED Characteristics

LED Ratings		Color							Units
		R	Y	G	B	PG	W	O	
Reverse Voltage	$V_R$	5	5	5	5	5	5	5	V
Forward Current (avg)	$I_F$	30	30	30	30	30	30	30	mA
Forward Current (peak)	$I_{FS}$	185	175	150	150	100	150	195	mA
Reverse Current $V_R = 5V$	$I_R$	10	10	10	10	10	10	10	μA
Power Dissipation	$P_T$	75	75	75	120	120	120	75	mW
Operating & Storage Temperature	$T_A$	-40 ~ +85							°C
Forward Voltage (typ) $I_F = 20mA$	$V_F$	2	2	2.1	3.3	3.2	3.3	2.1	V
Forward Voltage (max) $I_F = 20mA$	$V_F$	2.5	2.5	2.5	4.0	4	4.0	2.5	V
Wavelength at Peak Emission, $I_F = 20mA$	$\lambda_P$	650	590	574	648	520	n/a	601	nm
Spectral Line Half-Width, $I_F = 20mA$	$\Delta\lambda$	28	20	20	25	35	n/a	29	nm
Luminous Intensity, $I_F = 20mA$	LI	230	160	50	80	150	300	320	mcd
Viewing Angle	$\Theta$	145	145	145	145	145	145	145	deg

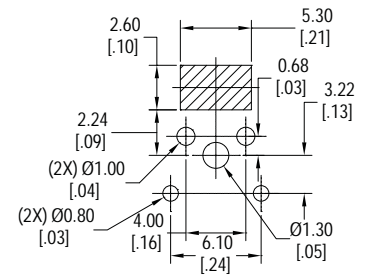


**Dimensions**

**TJV**

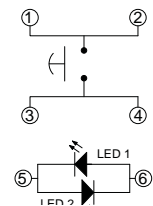
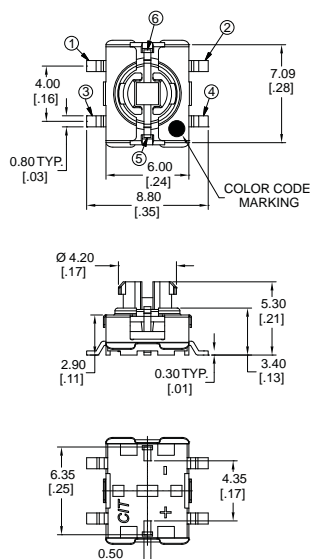


**Schematic**

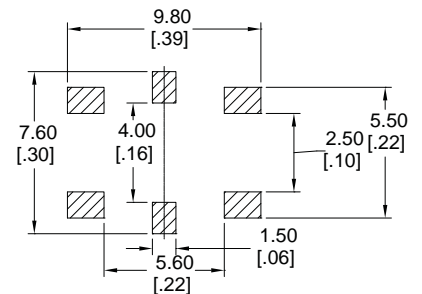


**PCB Layout**

**TJS**



**Schematic**



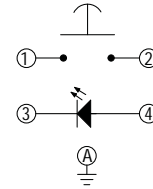
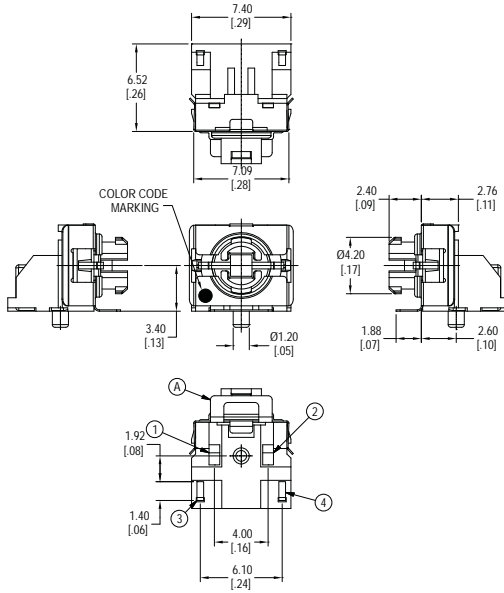
**PCB Layout**

# TJ

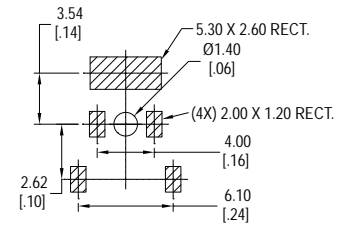
## Sealed Illuminated Tactile

### Dimensions

#### TJSV



**Schematic**



**PCB Layout**

### Laser Etching Styles



**A**



**B**



**C**



**D**



**E**



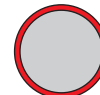
**F**



**G**



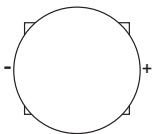
**H**



**I**

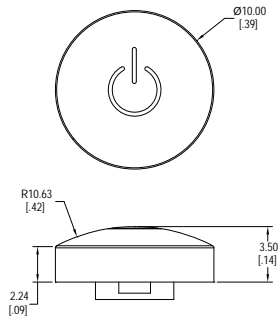


**J**

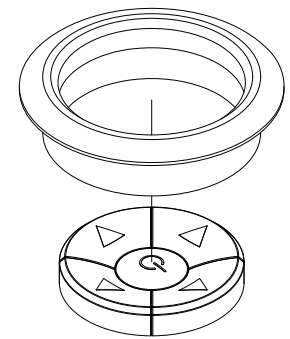
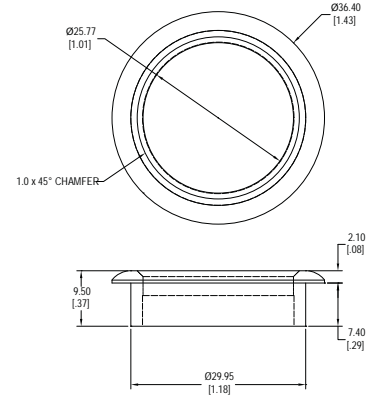
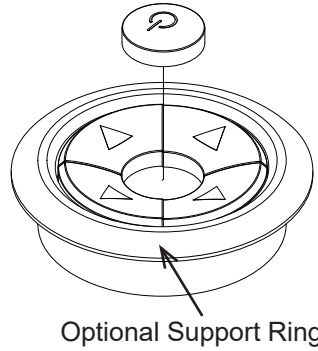


*All laser etching styles will be orientated with the + terminal located on the right hand side with respect to the legend.*

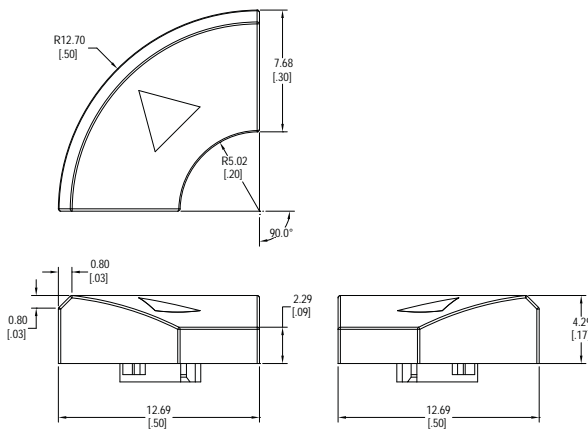
**Caps**



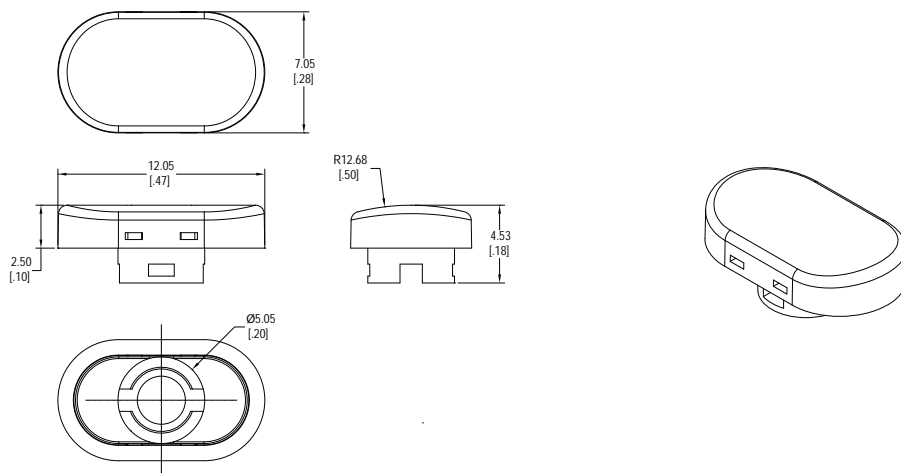
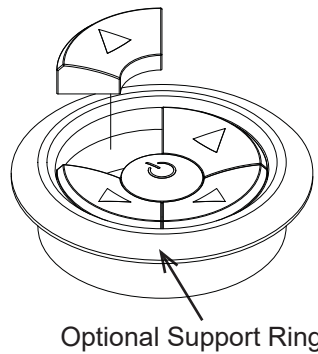
**A Style Cap - Shown with E Laser Etching Style**



**Support Ring**



**B Style Cap - Shown with F Laser Etching Style**

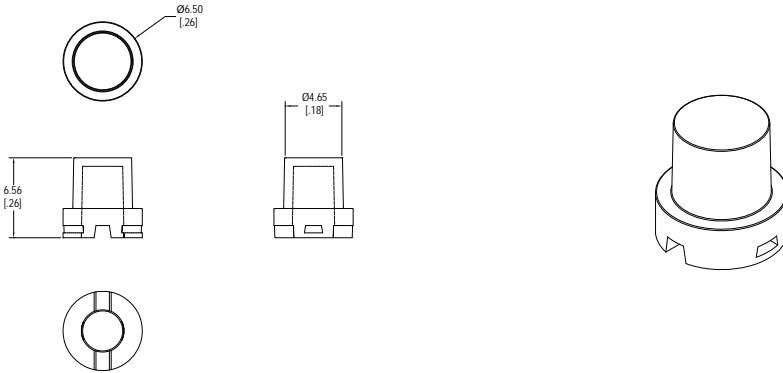


**C Style Cap**

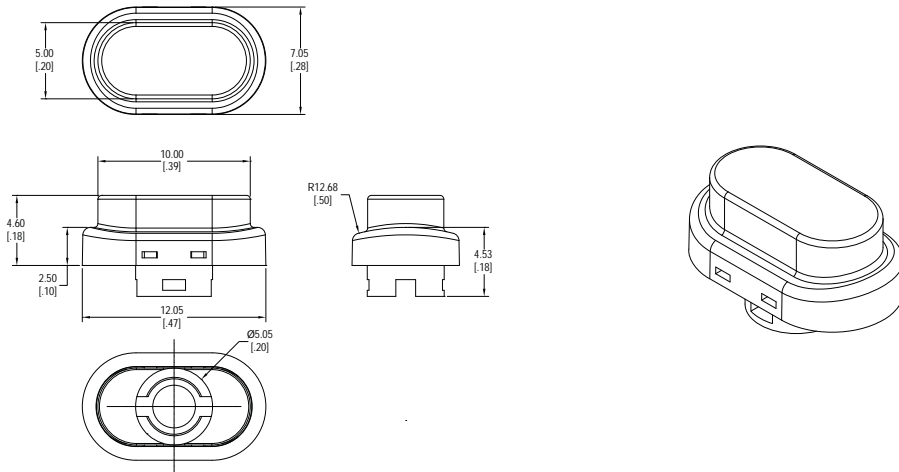
# TJ

## Sealed Illuminated Tactile

### Caps

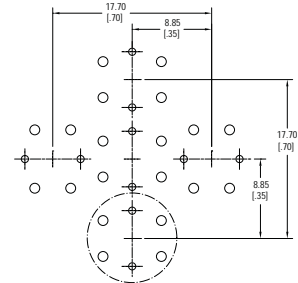
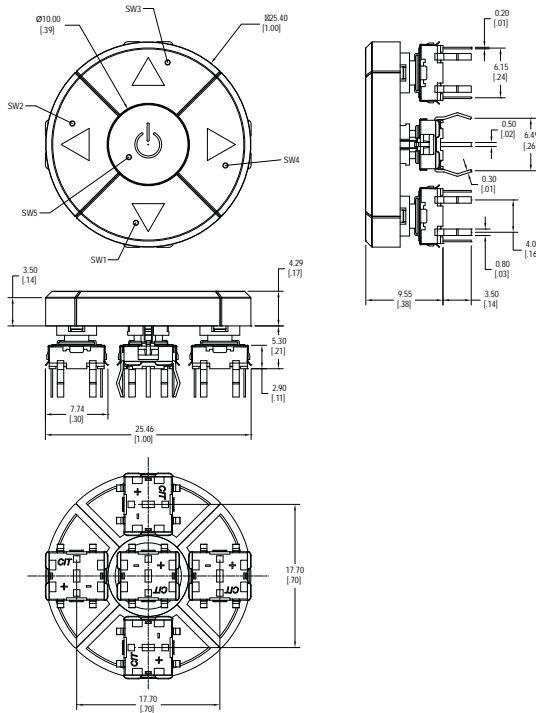


**D Style Cap**

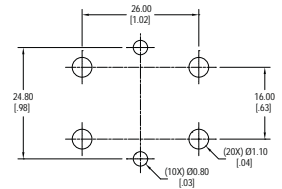


**E Style Cap**

**Assembly, Thru-Hole**

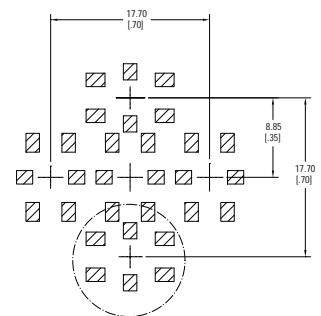
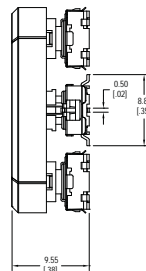
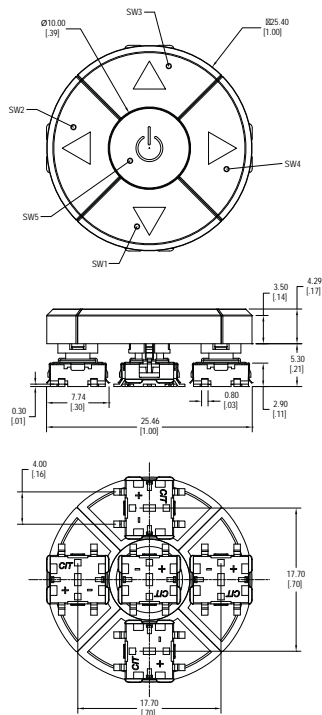


**Schematic**

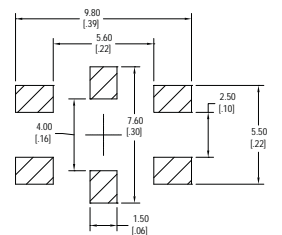


**PCB Layout**

**Assembly, Surface Mount**



**Schematic**



**PCB Layout**