



IP 67  
ACCORDING TO  
EN 60529:1991+A1:2001  
IEC 60529:2001



## SPECIFICATION:

### MAX. CURRENT/VOLTAGE RATING WITH RESISTIVE LOAD:

PA S6/S7	400mA 32VAC-100mA 50VDC-125mA 125VAC 500mA 48VAC - 200 mA 50VDC - 200mA 250VAC.
PA L6	100mA 24VDC-life expectancy 200,000 cycles 2A 125VAC-life expectancy 10,000 cycles

**INITIAL CONTACT RESISTANCE:** 50mΩ max.

**INSULATION RESISTANCE:** 1GΩ min.at 500VDC.

**DIELECTRIC STRENGTH:** 1,000 VAC rms.  
1,500 VAC rms. for metal material.

### ELECTRICAL LIFE AT FULL LOAD:

PA S6/S7	500,000 cycles.
PA L6	200,000 cycles.

**OPERATING TEMPERATURE:** -30°C to 85°C.

### PANEL THICKNESS:

B1 series : 0.8 mm (.031) min. -1.8 mm (.071) max.  
B2 series : 1.5 mm (.059) min. -4 mm (.157) max.  
B3 series : 3.0±0.25 mm (.118)

### TOTAL TRAVEL:

PA S6/S7	1.5 mm(.059)
PA L6	2.5 mm(.098)

**OPERATING FORCE:** 2N~5N

**CONTACT BOUNCE:** 10 ms.

**MECHANICAL LIFE:** 1,000,000 cycles.

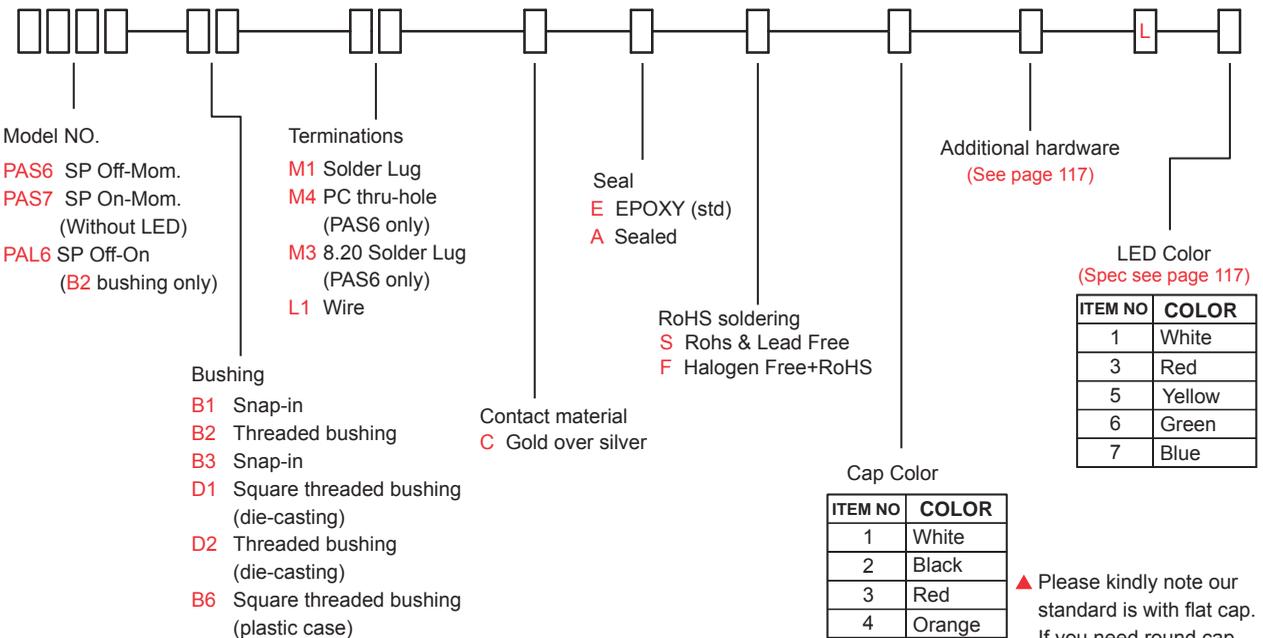
**TORQUE:** 0.5 Nm max.applied to nut,  
1.5 Nm max. for metal material.

**SOLDERING:** 350°C max.for 5 seconds.



## HOW TO ORDER

MODEL NO. BUSHING TERMINATIONS CONTACT MATERIAL SEAL RoHS SOLDERING CAP COLOR ADDITIONAL HARDWARE LED LED COLOR



▲ Please kindly note our standard is with flat cap. If you need round cap, please add "A" before cap color option.



## SWITCH FUNCTION

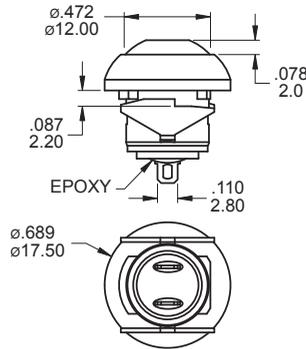
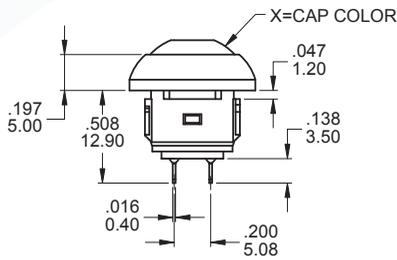
NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
		POS.1	POS.2	POS.1	POS.2	
						
SP	PAS6	OFF	MOM	OPEN	1-3	
SP	PAS7	ON	OFF(MOM)	1-3	OPEN	
SP	PAL6	OFF	ON	OPEN	1-3	

MOM=MOMENTARY

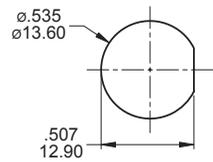


PA  
Sub-Miniature Pushbutton Switches

**B1**



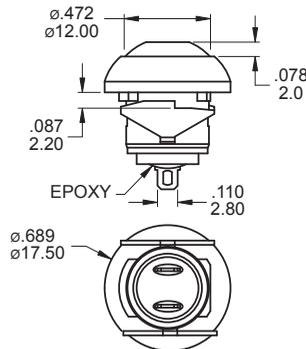
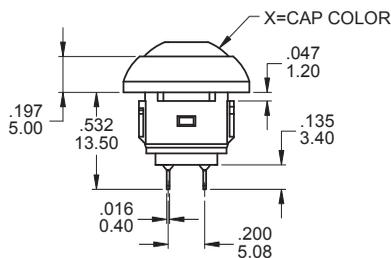
PANEL MOUNTING



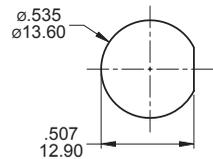
**SPST**

Part No. Shown : PAS6B1M1CESX-5

**B1**



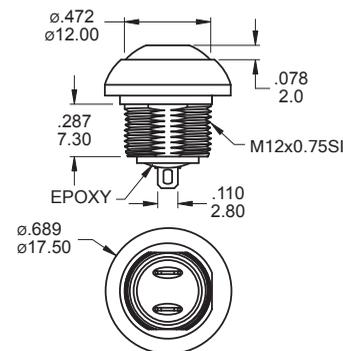
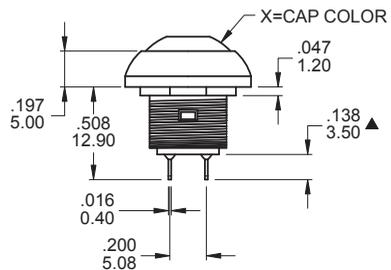
PANEL MOUNTING



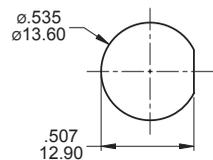
**SPST**

Part No. Shown : PAS7B1M1CESX-5

**B2**



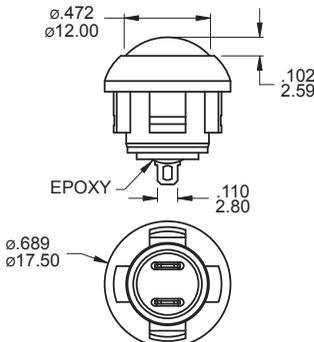
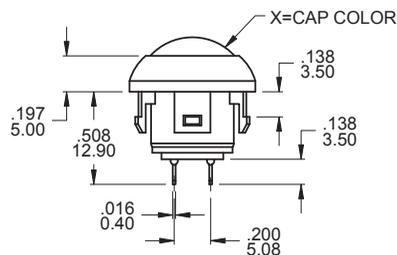
PANEL MOUNTING



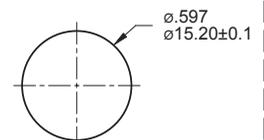
**SPST**

Part No. Shown : PAS6B2M1CESX-5

**B3**

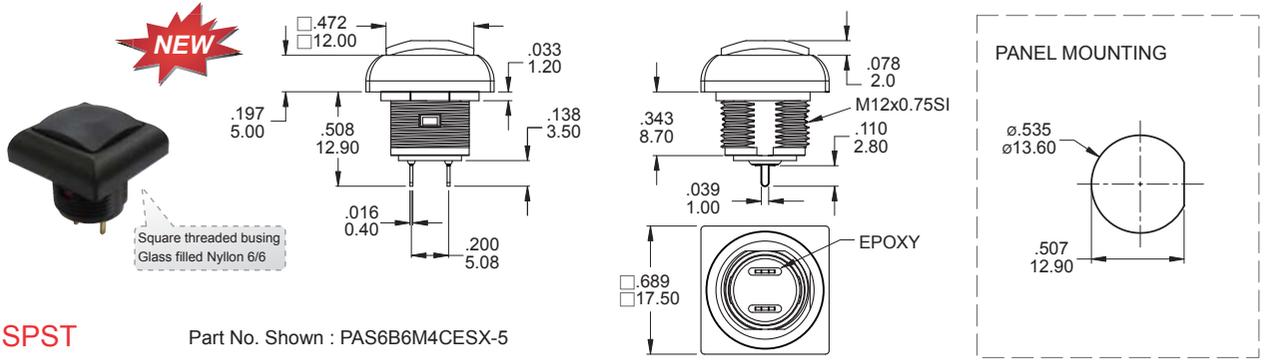


PANEL MOUNTING

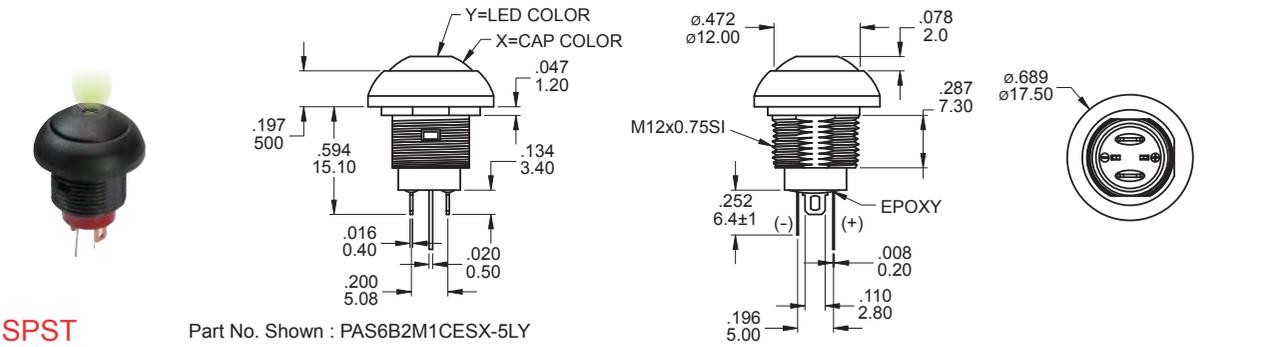


**SPST**

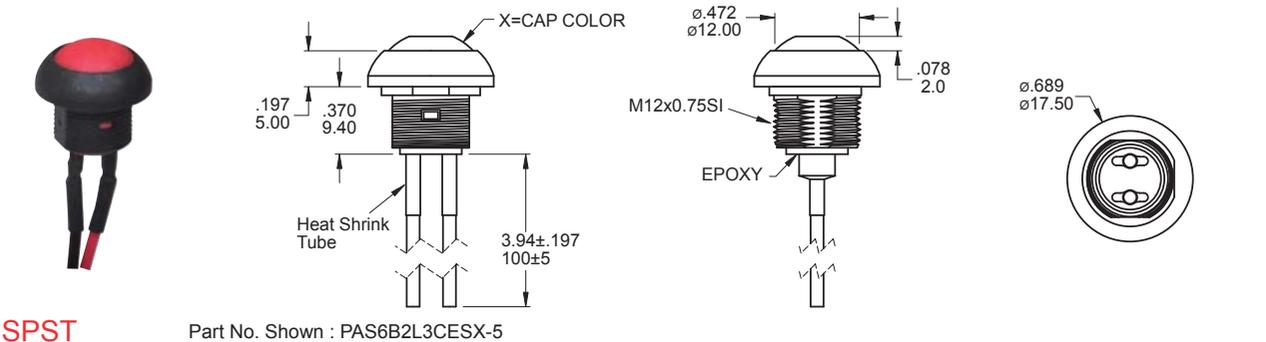
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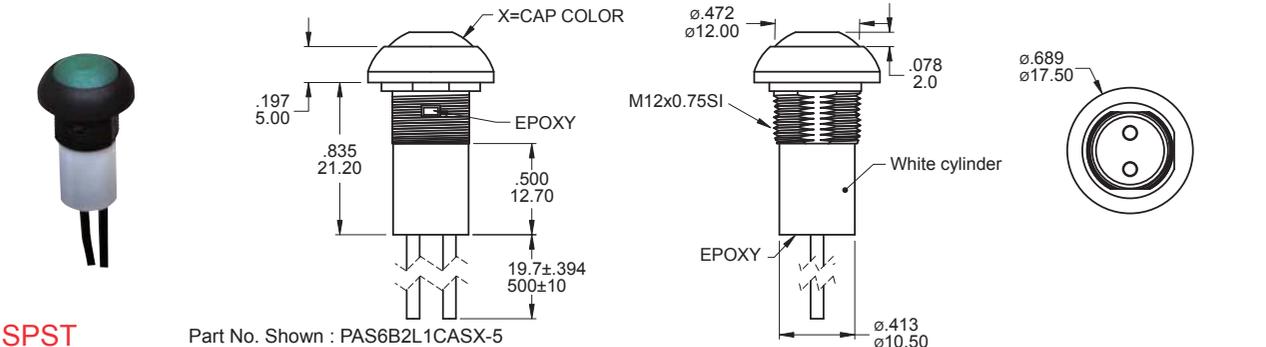
SPST



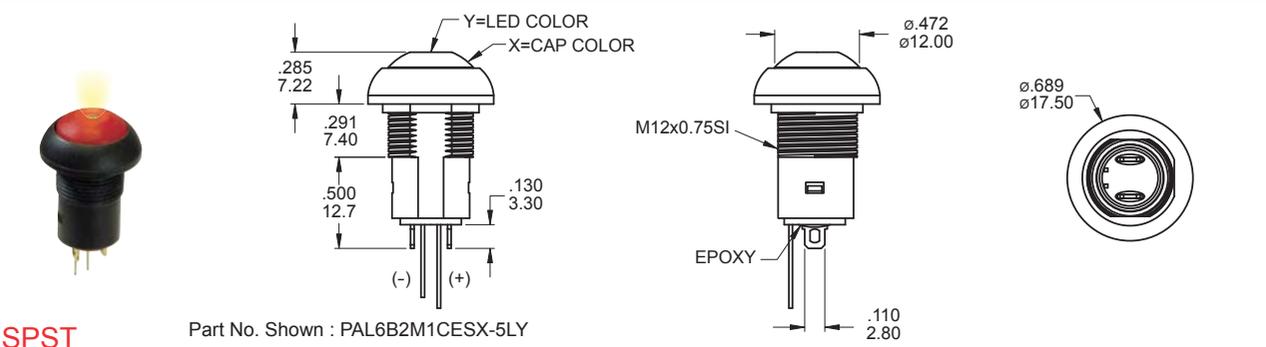
SPST



SPST



SPST



SPST



PA Pushbutton Switches

## BUSHING PLATING



- PLATING
- A Chromium
  - B Tin-nickel Alloy
  - C Stain-chromium
  - D Stain-nickel



Chromium



Tin-nickel Alloy



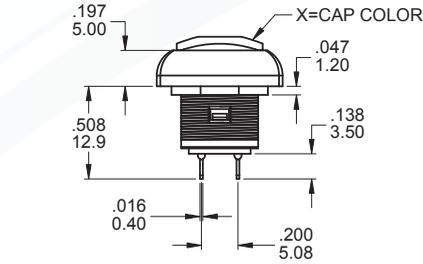
Stain-chromium



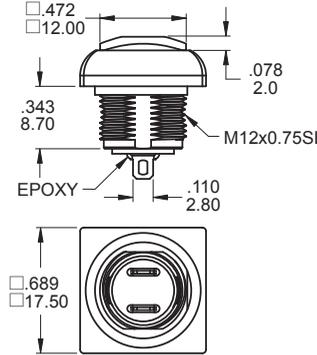
Stain-nickel



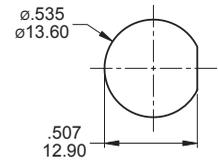
SPST



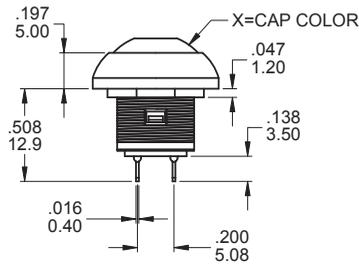
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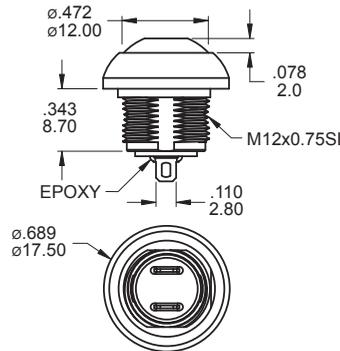
PANEL MOUNTING



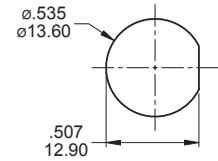
SPST



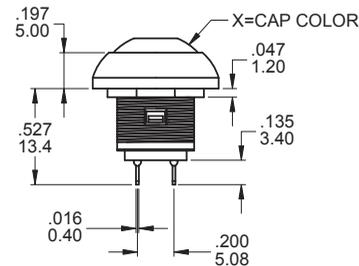
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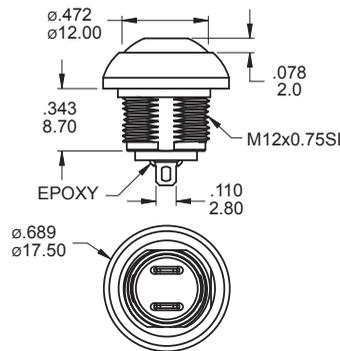
PANEL MOUNTING



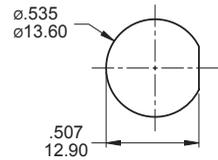
SPST



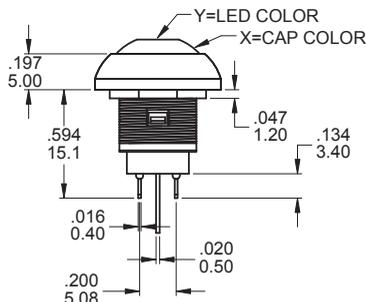
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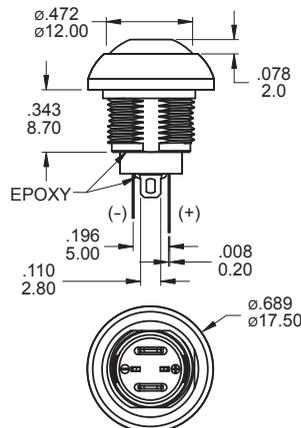
PANEL MOUNTING



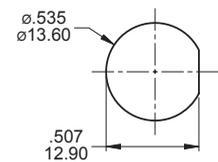
SPST



Part No. Shown : PAS6D2M1CESX-5LY

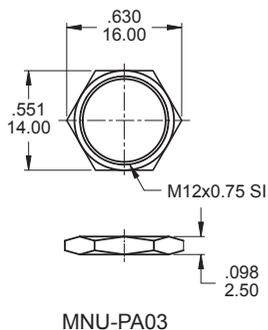


PANEL MOUNTING

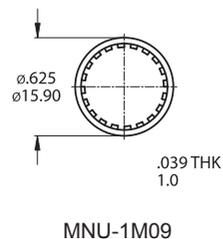


## HARDWARE

### M12 NUT

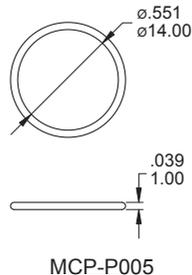


### LOCK WASHER



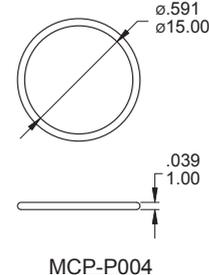
Supplied with B2 / D1 / D2 bushing

### O-RING



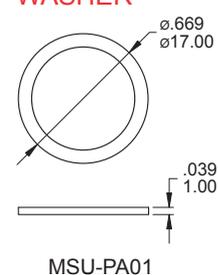
Supplied with PAL6 and D1 / D2 options

### O-RING



Supplied standard with B3 options

### RUBBER WASHER



Supplied standard with B1 / B2 options

## WITH LED ELECTRO-OPTICAL DATA

\* The LED specification for reference only

Model No.	Lens Appearance	Color	Electro-optical Data (AT 20mA)				Peak Wavelength	Viewing Angle 2θ 1/2 (deg)	
			Vf (V)		Iv (mcd)				
			Typ.	Max.	Typ.	Min.			
PAS6 & PAS7	Water Clear	Super White	2.8	3.3	200	100	X / Y=0.27	35°	
		Super Red	2.0	2.5	700	200			
		Yellow	2.1	2.6	100	55			
		Green	2.2	2.7	130	70			
		Super Blue	3.1	3.6	580	250			
		Super Yellow ( Super Green )	Y	2	2.6	475			210
			G	2	2.6	210			140
		Super Yellow ( Super Blue )	Y	2.1	2.6	200			94
			B	3.2	3.6	200			94
		Super Yellow ( Super Red )	Y	2.1	2.6	100			63
			R	2	2.6	90			42
		Super Red ( Super Green )	R	2	2.6	90			42
G	2.0		2.6	90	42				
Super Red ( Super Blue )	R	2	2.6	90	42				
	B	3.2	3.6	200	94				
Super Green ( Super Blue )	G	2.0	2.6	100	42				
	B	3.2	3.6	200	94				
PAL6	Water Clear	White	3.3	4	250	50	X=0.31 Y=0.31	90°	
		Super Red	1.95	2.5	350	70			
		Super Yellow	2	2.5	160	70			
		Super Green	2.1	2.5	70	18			
		Super Blue	3.3	4	150	36			
		Super Yellow ( Super Green )	Y	2	2.5	170		50	170°
			G	2.1	2.5	50		18	
		Super Yellow ( Super Red )	Y	1.95	2.5	220		70	
			R	2	2.5	170		50	
		Super Red ( Super Green )	R	1.95	2.5	220		70	
G	2.1		2.5	50	18				



PA Pushbutton Switches

## SOLDERING PROCESSES

**MANUAL SOLDERING:** Use soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder.

**WAVE SOLDERING:**

Recommended Soldering Temperature: 260 ± 5°C

Duration of Solder Immersion: Max 5 sec.

(PCB is 1.6mm in thickness)

