

Sub Miniature Pushbutton Switches

SPECIFICATIONS

MAX. CURRENT/VOLTAGE RATING WITH RESISTIVE LOAD:

Standard bushing type: 400mA 32VAC-100mA 50VDC-125mA 125VAC

Metal bushing type(Die-casting with plating): 500mA 48VAC - 200 mA 50VDC - 200mA 250VAC

INITIAL CONTACT RESISTANCE: 50mΩmax. (without wire leads)

INSULATION RESISTANCE: 1GΩmin.at 500VDC.

DIELECTRIC STRENGTH:

Standard bushing type: 1,000 VAC rms.(initial value)

Metal bushing type(Die-casting with plating): 1,500 VAC rms.(initial value)

ELECTRICAL LIFE AT FULL LOAD: 500,000 cycles.

OPERATING TEMPERATURE: -30°C to 85°C.

TOTAL TRAVEL: 1.5 mm(.059)

OPERATING FORCE: 2N~5N

CONTACT BOUNCE: 10 ms.

MECHANICAL LIFE: 1,000,000 cycles.

TORQUE:

Standard bushing type: 0.5 Nm max.

Metal bushing type (Die-casting with plating): 1.5 Nm max.

SOLDERING: 350°C max. for 5 seconds.

IP67 models available,
consult sales representatives.

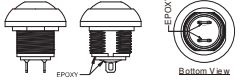
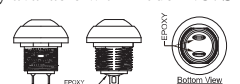
MATERIALS

CASE: Diallyl phthalate (DAP)(UL94v-0).

CAP: Polyamide 6/6.

BUSHING: Polyamide 6/6.

PART NUMBERING SYSTEM

PA	S	B				S			L
Model No.	Bushing type	Die-casting plating	Termination	Contact material	Seal	RoHS	Actuator type	Actuator color ³	Led color ³
S6 SPST OFF-(ON) S7 SPST ON-(OFF) Note: S7 is not available with LED	B1 Round, snap-in B2 Round threaded B3 Round, snap-in B6 Square threaded ¹ Note: Die-casting with plating is only available for bushing B2 and B6 .	A Chromium C Stain-chromium D Stain-nickel plating		A Gold over silver Only available with Model NO. S6 			Flat(STD.)  A Round  G High 	1 White 2 Black(STD.) 3 Red(STD.) 4 Orange 5 Yellow 6 Green 7 Blue	Single color LED 1 White 3 Red 5 Yellow 6 Green 7 Blue Dual color LED 36 Red+Green 37 Red+Blue Note: LED is only available with flat cap.
		Terminal type M1 Solder Lug 3.50mm(STD.) M13 Solder lug 8.20mm ² M2 PCB thru-hole ²		Only available with Model NO. S7 					
		Wire type L2 90mm wire leads 20 AWG L3 100mm wire leads 20 AWG D1 Molding are only available for B2 and flat cap with 500mm wire leads 20 AWG							

¹ Bushing **B6** is only available with flat cap.

² Terminal **M13** and **M2** are only available with PA-S6 without LED.

³ Except standard color, for other colors information please consult sales representative.

Sub Miniature Pushbutton Switches

Model No./ Switching function ()= Momentary

Model No.	Switching function	
	Pos. 1	Pos. 2
S6	OFF	(ON)
Connected terminals	OPEN	1-3
Schematic		

Model No.	Switching function	
	Pos. 1	Pos. 2
S7	ON	(OFF)
Connected terminals	1-3	OPEN
Schematic		

Bushing

Unit: mm

Model No.	B1, Round, Snap-in	B2, Round, Threaded	B3, Round, Snap-in	B6, Square, Threaded
S6	 Panel Cutout 	 Panel Cutout 	 Panel Cutout 	 Panel Cutout
	Panel thickness: 0.8 mm (.031inch) min. ~1.8 mm (.071inch) max.	Panel thickness: 1.5 mm (.059inch) min. ~4 mm (.157inch) max.	Panel thickness: 2.85+0.05/-0.10mm (.112inch)	Panel thickness: 1.5 mm (.059inch) min. ~4 mm (.157inch) max.
Model No.	B1, Round, Snap-in	B2, Round, Threaded	B3, Round, Snap-in	B6, Square, Threaded
S7	 Panel Cutout 	 Panel Cutout 	 Panel Cutout 	 Panel Cutout
	Panel thickness: 0.8 mm (.031inch) min. ~1.8 mm (.071inch) max.	Panel thickness: 1.5 mm (.059inch) min. ~4 mm (.157inch) max.	Panel thickness: 2.85+0.05/-0.10mm (.112inch)	Panel thickness: 1.5 mm (.059inch) min. ~4 mm (.157inch) max.

Die-casting with plating

A Chromium	C Stain-chromium	D Stain-nickel

Specifications and dimensions are subject to change.

Sub Miniature Pushbutton Switches

Termination

Unit: mm

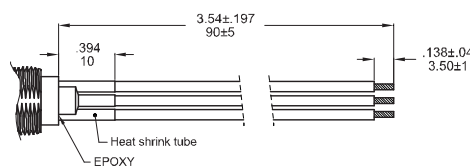
M1 Solder Lug(STD.)	M13 8.20 Solder Lug	M2 PCB Thru-hole
PA-S6 PA-S7 Not available with LED.		
Terminal M13 and M2 are only available with PA-S6 without LED.		

Termination

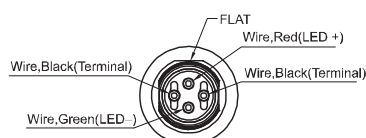
Unit: mm

Wire type

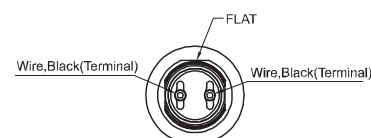
L2 90mm wire leads 20 AWG



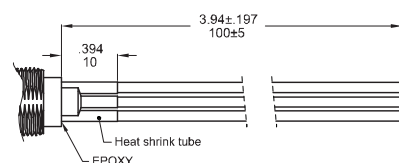
Illuminated



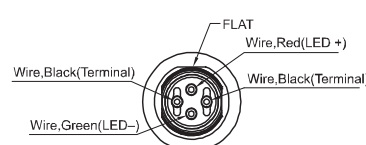
Non-illuminated



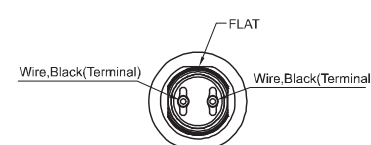
L3 100mm wire leads 20 AWG



Illuminated

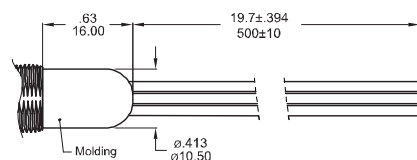


Non-illuminated

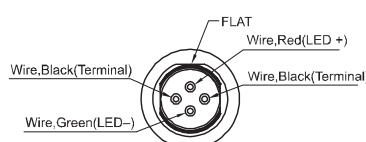


D1 Molding, 500mm wire leads 20 AWG

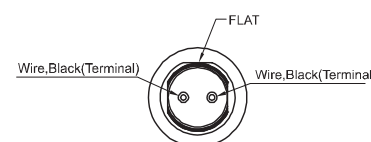
※ Only available for bushing B2 with flat cap.



Illuminated



Non-illuminated



Actuator

Unit: mm

Flat type(STD.)	A Round No LED	G High No LED
Round and high caps are not available for bushing B6.		

Specifications and dimensions are subject to change.

3 / 6

For the latest product information, please visit our website at www.pacer.com.tw or email us at pacer@mail.ece.com.tw

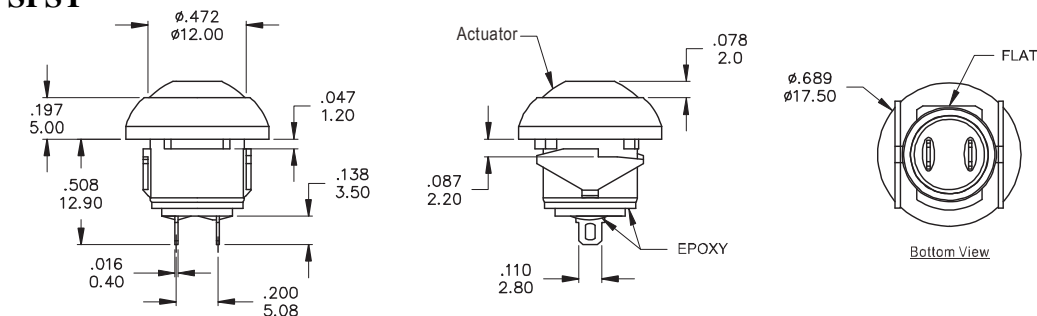
Sub Miniature Pushbutton Switches

Dimensions

Unit: mm

Part No. Shown: PA-S6-B1-M1AAS-□

SPST

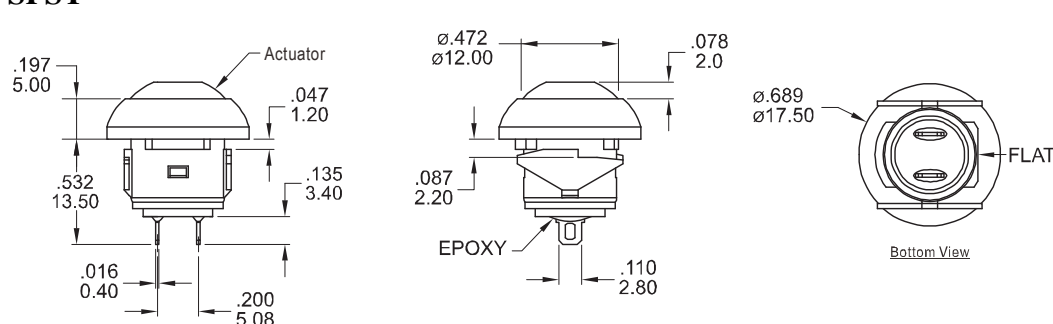


Panel Cutout

Panel thickness:
0.8 mm (.031inch) min. ~
1.8 mm (.071inch) max

Part No. Shown: PA-S7-B1-M1AES-□

SPST

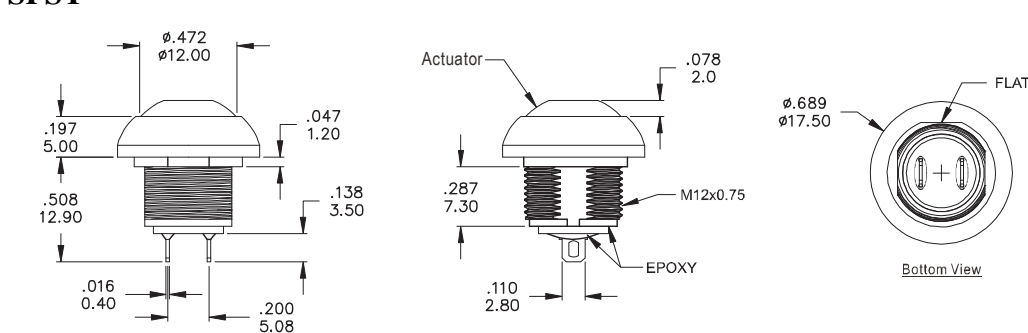


Panel Cutout

Panel thickness:
0.8 mm (.031inch) min. ~
1.8 mm (.071inch) max

Part No. Shown: PA-S6-B2-M1AAS-□

SPST

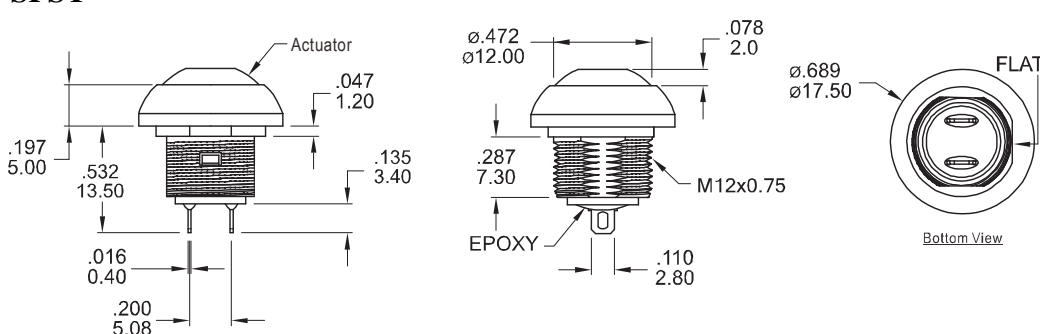


Panel Cutout

Panel thickness:
1.5 mm (.059inch) min.
~4 mm (.157inch) max.

Part No. Shown: PA-S7-B2-M1AES-□

SPST



Panel Cutout

Panel thickness:
1.5 mm (.059inch) min.
~4 mm (.157inch) max.

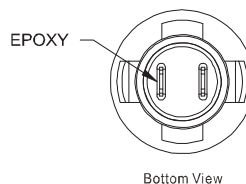
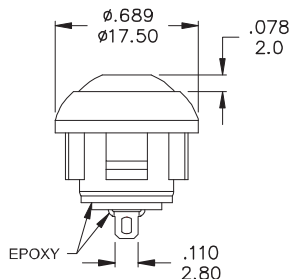
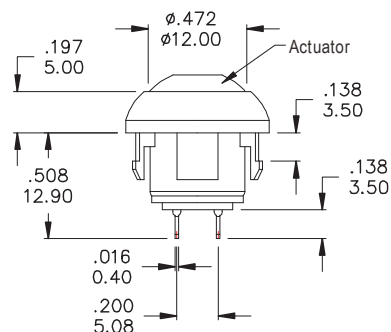
Sub Miniature Pushbutton Switches

Dimensions

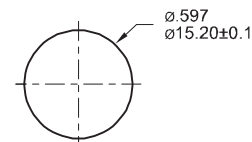
Unit: mm

Part No. Shown: PA-S6-B3-M1AAS-□

SPST



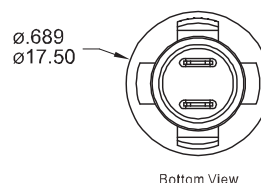
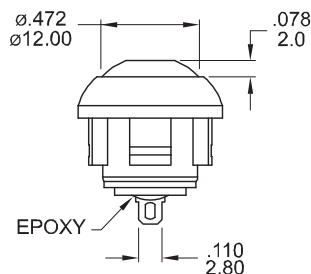
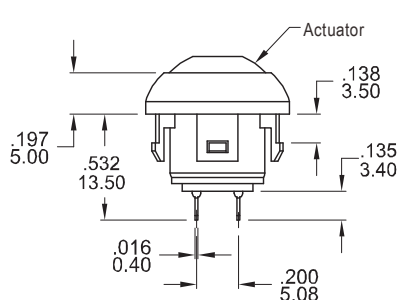
Panel Cutout



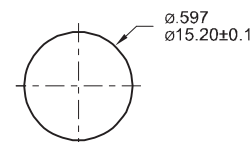
Panel thickness:
2.85+0.05/-0.10mm (.112inch)

Part No. Shown: PA-S7-B3-M1AES-□

SPST



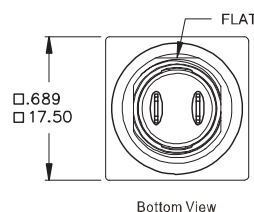
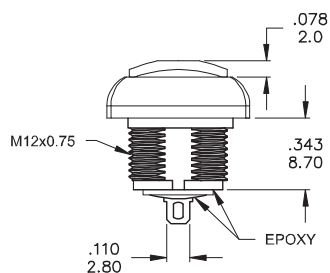
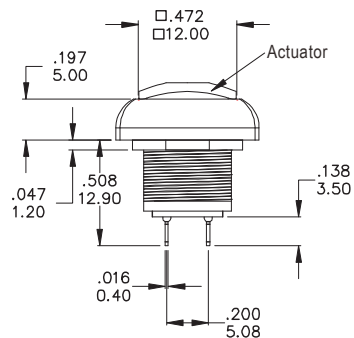
Panel Cutout



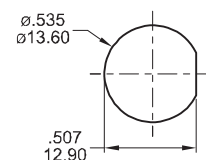
Panel thickness:
2.85+0.05/-0.10mm (.112inch)

Part No. Shown: PA-S6-B6-M1AAS-□

SPST



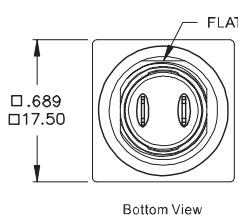
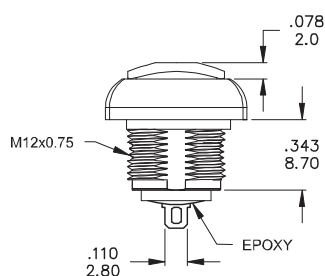
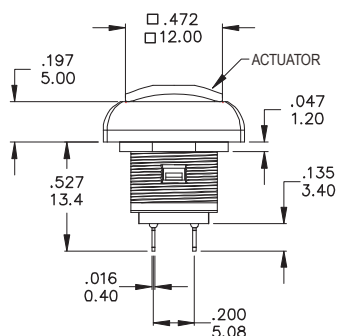
Panel Cutout



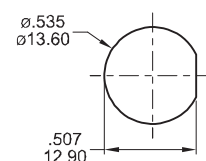
Panel thickness:
1.5 mm (.059inch) min.
~4 mm (.157inch) max.

Part No. Shown: PA-S7-B6-M1AES-□

SPST



Panel Cutout



Panel thickness:
1.5 mm (.059inch) min.
~4 mm (.157inch) max.

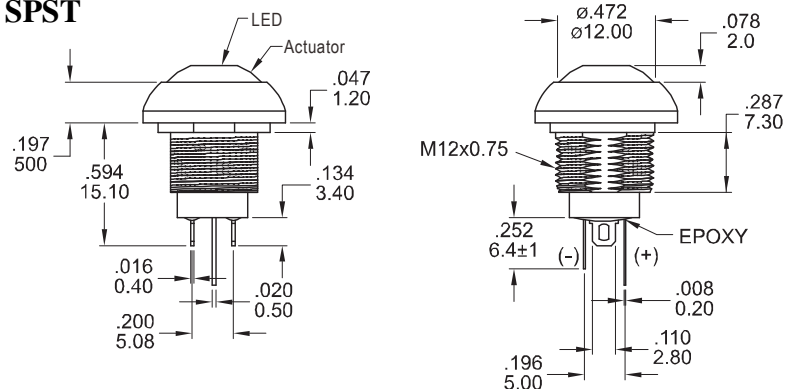
Sub Miniature Pushbutton Switches

Dimensions

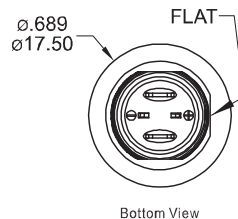
Unit: mm

Part No. Shown: PA-S6-B2-M1AAS-□-L□□

SPST



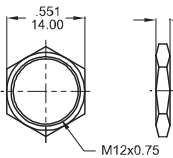
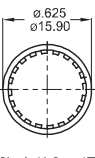
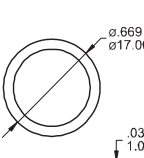
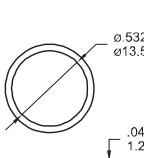
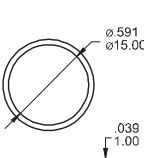
Panel Cutout



Panel thickness:
1.5 mm (.059inch) min.
~4 mm (.157inch) max.

Hardware

Unit: mm

Hardware					
	Nut	Lock washer	Eva washer	O-ring (13.5Ø)	O-ring (15.0Ø)
Bushing	 M12x0.75	 .039inch (1.0mm) THK	 .039 (1.00)	 .047 (1.20)	 .039 (1.00)
B1	N. A.	N. A.	1 pc	N. A.	N. A.
B2	1 pc	1 pc	1 pc	N. A.	N. A.
B3	N. A.	N. A.	N. A.	N. A.	1 pc
B6	1 pc	1 pc	N. A.	1 pc	N. A.