Push Button Switches

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Specifications:

Maximum current/voltage rating with resistive load : 400 mA 32 V ac, 100 mA 50 V dc and 125 mA 125 V ac
Maximum initial contact resistance : 50 mΩ
Minimum insulation resistance : 1 GΩ at 500 V dc
Dielectric strength : 1,000 V ac rms
Electrical life at full load : 500,000 cycles

Panel Thickness:

-B1 series : 0.8 mm (0.031) minimum and 1.8 mm (0.071) maximum
-B2 series : 1.5 mm (0.059) minimum and 4 mm (0.157) maximum
Total travel : 1.5 mm (0.59)
Operating force : 2 N to 5 N
Contact bounce : 10 ms
Mechanical life : 1,000,000 cycles
Maximum torque : 1.5 Nm applied to nut
Maximum soldering : 300°C for 3 seconds

Switch Function

Number Poles	Switch Function		Connected Terminals			Model Number
	Position 1	Position 2	Position 1	Position 2	Schematic	
SP	OFF	MOM	OPEN	1-3		PAS6

Pole Options

1.4 (0.055)
2.3 (0.09)
2.8 (0.11)

Dimension : Millimetres (Inches)
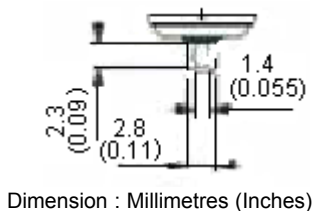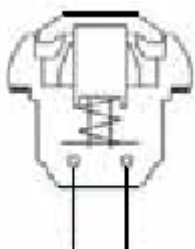
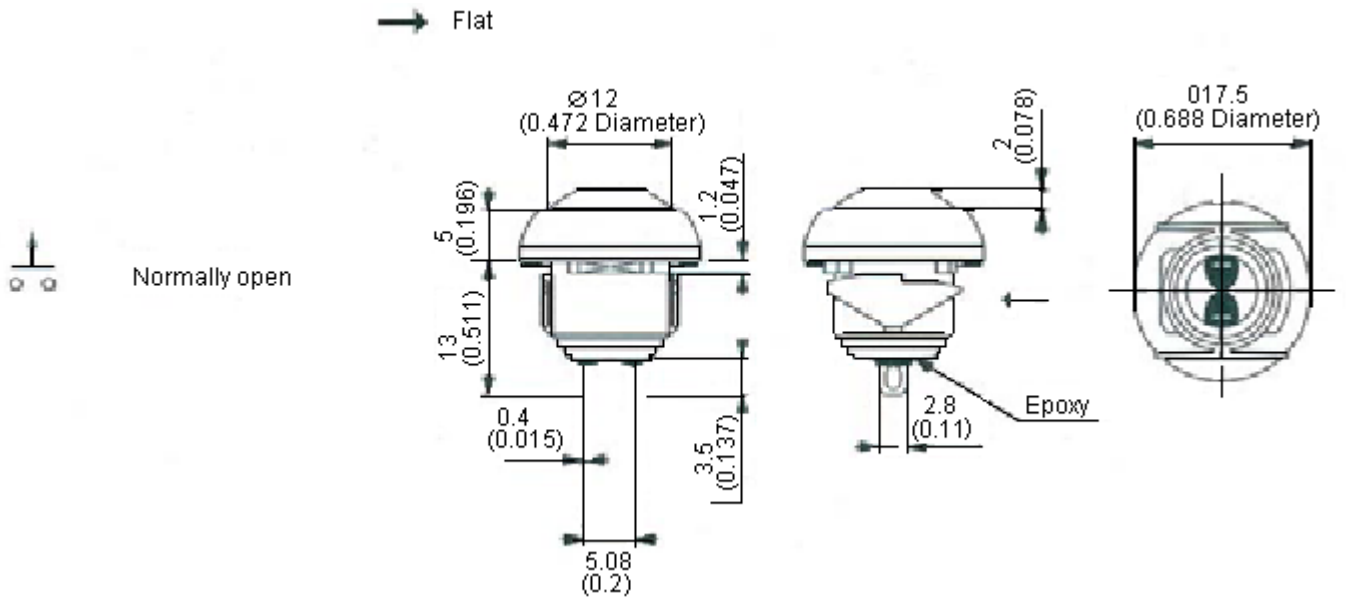### Features:

- Eight plunger colours
- Flat plunger top allowing marking
- Antirotation bushing
- New solder lug terminal

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Push Button Switches
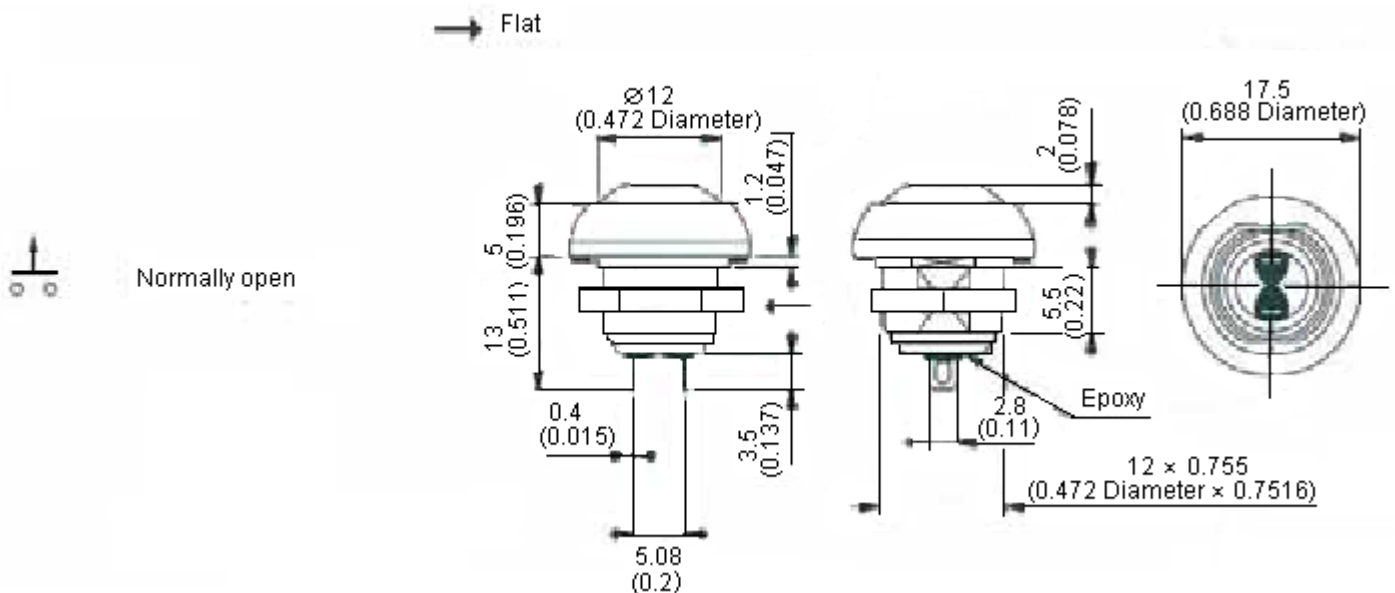

Snap-in Mounting

Flat

Ø12 (0.472 Diameter)
017.5 (0.688 Diameter)
5 (0.196)
1.2 (0.047)
2 (0.078)
13 (0.511)
Normally open
0.4 (0.015)
3.5 (0.137)
2.8 (0.11)
Epoxy
5.08 (0.2)

Panel Thickness : 0.8 mm to 1.8 mm   Dimension : Millimetres (Inches)

Mounting by Threaded Bushing

Flat

Ø12 (0.472 Diameter)
17.5 (0.688 Diameter)
5 (0.196)
1.2 (0.047)
2 (0.078)
13 (0.511)
Normally open
5.5 (0.22)
0.4 (0.015)
3.5 (0.137)
2.8 (0.11)
Epoxy
12 × 0.755 (0.472 Diameter × 0.7516)
5.08 (0.2)

Panel Thickness : 1.5 mm to 4 mm   Dimension : Millimetres (Inches)

## 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 : 5 ±1 seconds
                             (PCB is 1.6 mm in thickness)
Soldering   : Vapor phase

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Temperature Profile

Zone	Room Temperature (°C)	Time (Seconds)
Pre-heat (A)	150	Minimum 120 s
Soak (B)	180 to 200	Minimum 150 s
Peak (C)	200 to 235	Minimum 30 s
Peak (D)	235 to 260	Minimum 40 s
Peak (E)	260	Maximum 10 s
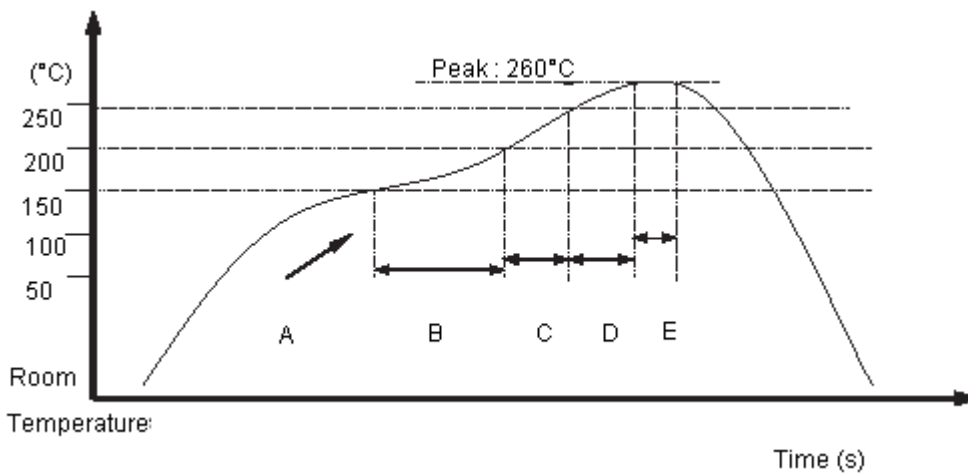
Part Number Table

Description	Part Number
SWITCH, PUSH BUTTON, SPST, IP67, BLUE	MCPAS6B1M1CE7
SWITCH, PUSH BUTTON, SPST, IP67, BLACK	MCPAS6B1M1CE2
SWITCH, PUSH BUTTON, SPST, IP67, RED	MCPAS6B1M1CE3
SWITCH, PUSH BUTTON, SPST, IP67, GREEN	MCPAS6B1M1CE6
SWITCH, PUSH BUTTON, SPST, IP67, YELLOW	MCPAS6B1M1CE5
SWITCH, PUSH BUTTON, SPST, IP67, BLUE	MCPAS6B2M1CE7
SWITCH, PUSH BUTTON, SPST, IP67, BLACK	MCPAS6B2M1CE2
SWITCH, PUSH BUTTON, SPST, IP67, RED	MCPAS6B2M1CE3
SWITCH, PUSH BUTTON, SPST, IP67, GREEN	MCPAS6B2M1CE6
SWITCH, PUSH BUTTON, SPST, IP67, YELLOW	MCPAS6B2M1CE5

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Part Number Explanation:

MCPAS6	B1	M1	C	E	☐	7
Model Number	Bushing	Terminations	Contact Material	Seal	ROHS Soldering	Cap Colour
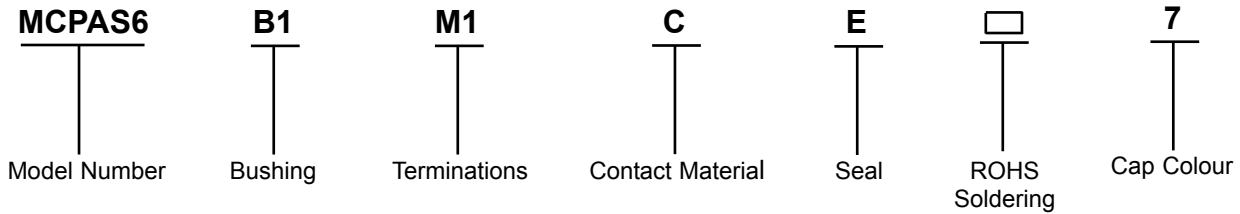
Bushing   : B1 = Snap-in, B2 = Threaded Bushing
Terminations   : M1 = Solder Lug
Contact Material   : C = Gold Over Silver
Seal   : E = Epoxy (std)
ROHS Soldering   : ☐ Rohs Compliant
Cap Colour   : 7 = Blue, 2 = Black, 3 = Red, 6 = Green and 5 = Yellow

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