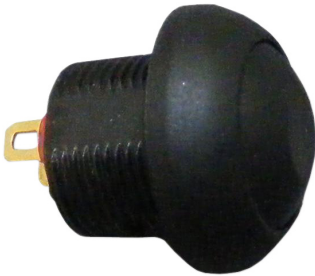# Miniature Pushbutton Switches

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Specifications:

Max. current/voltage rating with resistive load	: 400mA 32V AC, 100mA 50V DC and 125mA 125V AC
Max. initial contact resistance	: 50mΩ
Min. insulation resistance	: 1GΩ at 500V DC
Dielectric strength	: 1,000V AC rms
Electrical life at full load	: 500,000 cycles

Panel Thickness:

|	
-B1 series	: 0.8mm (0.031 inches) min. and 1.8mm (0.071 inches) max.
-B2 series	: 1.5mm (0.059 inches) min. and 4mm (0.157 inches) max.
Total travel	: 1.5mm (0.59 inches)
Operating force	: 2N to 5N
Contact bounce	: 10ms
Mechanical life	: 1,000,000 cycles
Max. torque	: 1.5 Nm applied to nut
Max. 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)

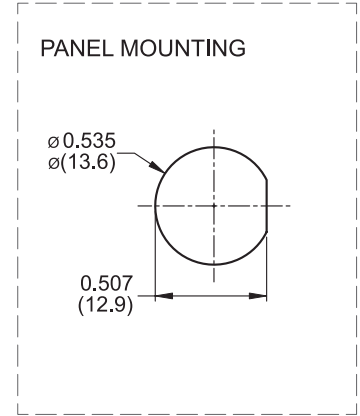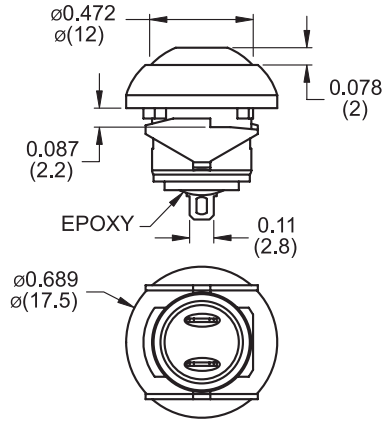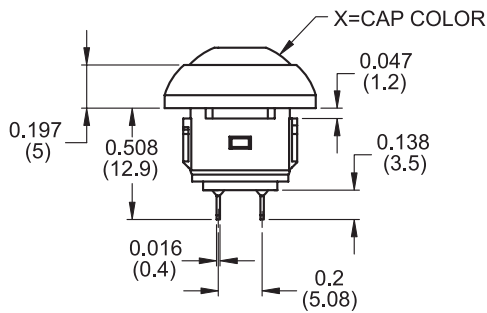2.8 (0.11)
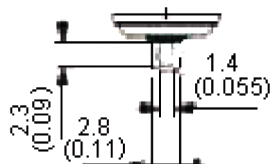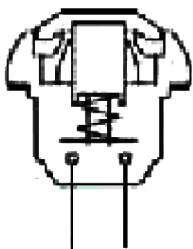
Dimension : Millimetres (Inches)

Features:

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

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Miniature Pushbutton Switches

Snap-in Mounting

X=CAP COLOR

0.047
(1.2)

0.197
(5)

0.508
(12.9)

0.138
(3.5)

0.016
(0.4)

0.2
(5.08)

⌀0.472
⌀(12)

0.078
(2)

0.087
(2.2)

EPOXY

0.11
(2.8)

⌀0.689
⌀(17.5)

PANEL MOUNTING

⌀0.535
⌀(13.6)

0.507
(12.9)

Panel Thickness : 0.8mm to 1.8mm

Dimension : Inches (Millimetres)

Mounting by Threaded Bushing

X=CAP COLOR

0.047
(1.2)

0.197
(5)

0.508
(12.9)

0.138
(3.5)

0.016
(0.4)

0.2
(5.08)

⌀0.472
⌀(12)

0.078
(2)

0.287
(7.3)

M12x0.75SI

EPOXY

0.11
(2.8)

⌀0.689
⌀(17.5)

PANEL MOUNTING

⌀0.535
⌀(13.6)

0.507
(12.9)
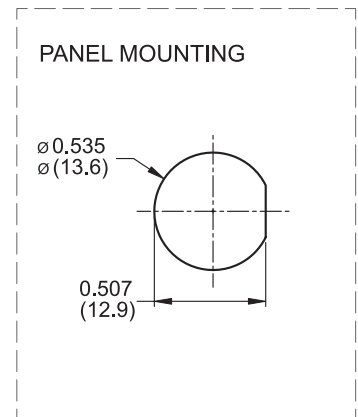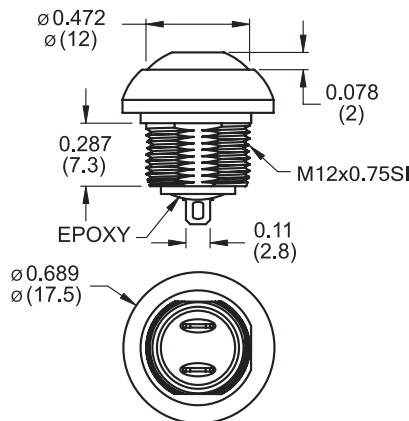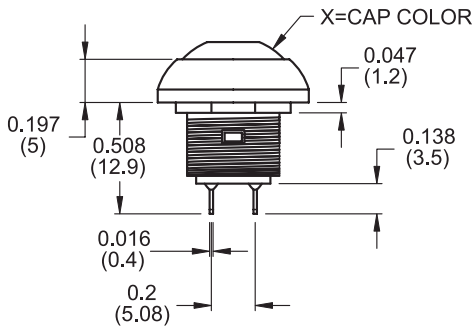
Panel Thickness : 1.5mm to 4mm

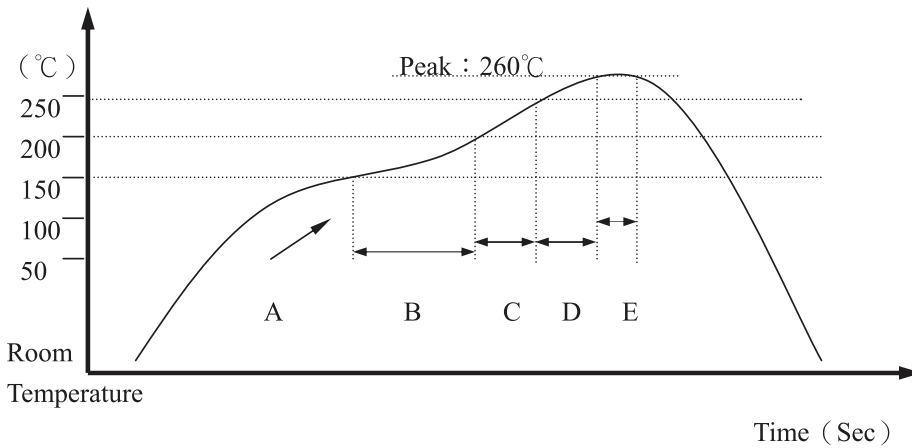Dimension : Inches (Millimetres)

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 120s
Soak (B)	180 to 200	Minimum 150s
Peak (C)	200 to 235	Minimum 30s
Peak (D)	235 to 260	Minimum 40s
Peak (E)	260	Maximum 10s

Part Number Table

Description	Part Number
Switch, Push Button, SPST, IP67, Black	MCPAS6B2M1CE2

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