

Pushbutton Switches

Sub-Miniature

multicomp PRO

**RoHS
Compliant**



Specifications

Contact Rating	: Dependent upon contact material
Mechanical life	: 50,000 make-and-break cycles
Max. Contact Resistance	: 20mΩ initial at 2-4V DC 100mA for both silver and gold plated contacts
Min. Insulation Resistance	: 1,000MΩ
Dielectric Strength	: 1,000Vrms at sea level
Operating Temperature	: -30°C to 85°C
Materials:	
Case and Bushing	: Glass filled nylon 4/6, flame retardant, heat stabilized
Plunger	: Thermoplastic Polyester with internal O-ring seal
Switch Support	: Brass tin plated
Contact / Terminals	: Silver or gold plated copper alloy

Switch Function

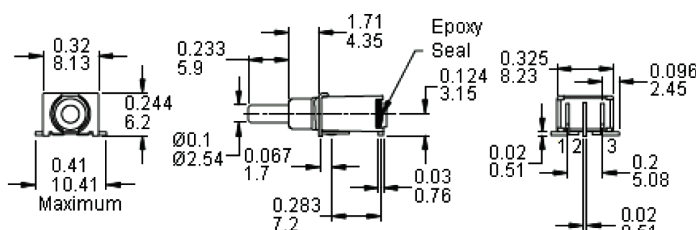
Number of Poles	Part Number	Switch Function		Connected Terminals / Schematic	
		Position 1	Position 2	Position 1	Position 2
SP	MC8BS8	ON	MOM	2-1 NC 1 → 2 (Comm) → 3 NO	2-3 NC 1 → 2 (Comm) → 3 NO
	MC8BS9	OFF	MOM	Open	1-3

MOM = Momentary

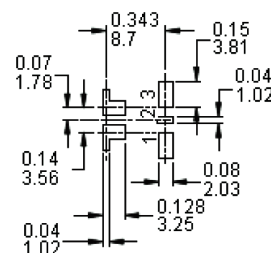
Pole Options SPDT



MC8BS8MTRES



PC Mounting



Dimensions : Inches (Millimetres)

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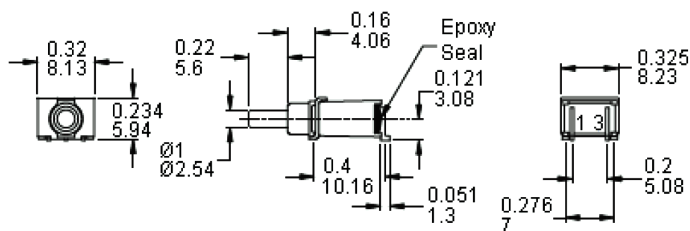


Pole Options

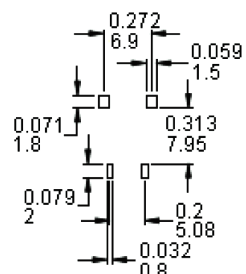
SPST



MC8BS9MZRES



PC Mounting



Dimensions : Inches (Millimetres)

Contact Material Options

	Contact Plating	Terminal Plating	Ratings
R	Gold	R = Gold	0.4 Volt - Amperes (VA) maximum at 20 V maximum (AC or DC)

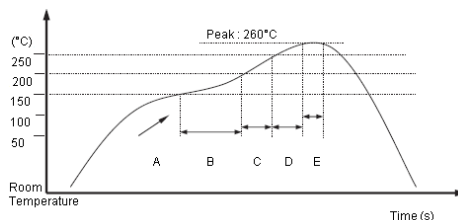
Soldering Process:

- 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 : Maximum 5 seconds (PCB is 1.6mm in thickness)
- Soldering : Vapour phase and IR-reflow soldering can be applied

Temperature Profile

Zone	Room Temperature	Time (s)
Pre-heat (A)	150°C	Min. 120s
Soak (B)	180°C to 200°C	Min. 150s
Peak (C)	200°C to 235°C	Min. 30s
Peak (D)	235°C to 260°C	Min. 40s
Peak (E)	260°C	Max. 5s

Temperature Profile



Part Number Table

Description	Part Number
Switch, SPDT, On-MOM, SMD, Sealed	MC8BS8MTRES
Switch, SPST, On-MOM, SMD, Right / Angle, Sealed	MC8BS9MZRES

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