Pushbutton Switches

Sub-Miniature







Specifications:

Contact rating : Dependent upon content material Mechanical life : 50,000 make-and-break cycles : $20 \text{ m}\Omega$ initial at 2-4 V dc

100 mA for both silver and gold plated contacts

Minimum insulation resistance : 1,000 $M\Omega$

Dielectric strength : 1,000 V rms 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

		Switch Function		Connected Terminals / Schematic	
Number of Poles	Model Number	Position 1	Position 2	Position 1	Position 2
roles		A	A	A	4
SP	8BS8	ON	MOM	2-1 /2 (Comm) NC 1 * *3 NO	2-3 NC 1 * \(^2(Comm)\) 3 NO
JF	8BS9	OFF	MOM	Open	1-3 † †3

MOM = Momentary

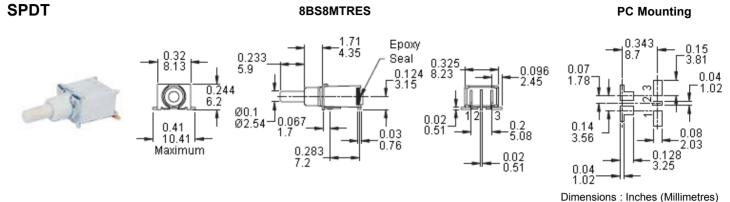


Pushbutton Switches

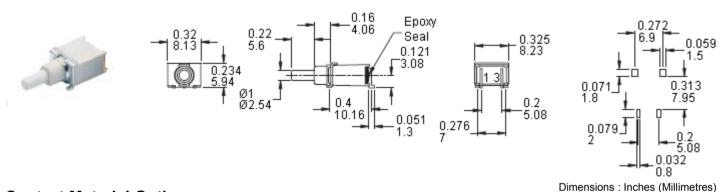
Sub-Miniature



Pole Options



SPST 8BS9MZRES PC Mounting



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 1.6 mm 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. 120 s
Soak (B)	180°C to 200°C	Min. 150 s
Peak (C)	200°C to 235°C	Min. 30 s
Peak (D)	235°C to 260°C	Min. 40 s
Peak (E)	260°C	Max. 5 s

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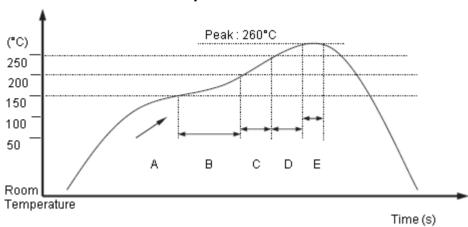


Pushbutton Switches

Sub-Miniature



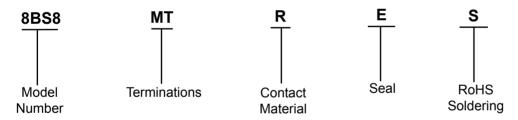




Part Number Table

Description	Part Number
Switch, SPDT, On-MOM, SMD, Sealed	8BS8MTRES
Switch, SPST, On-MOM, SMD, Right / Angle, Sealed	8BS9MZRES

Part Number Explanation:



Model Number : 8BS8 = On-Mom, 8BS9 = On-Mom

Terminations : MT = (STD) Right angle, surface mount, MZ = (STD)

Contact Material : R = Gold Seal : E = Epoxy (std)

RoHS Soldering : S = RoHS and Lead Free

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