

Pushbutton Switches

Ultra Miniature



Specifications:

Maximum contact rating	: 0.4 VA at 20 V ac or dc
Mechanical life	: 40,000 make-and-break cycles
Contact resistance	: Below 100 mΩ typical initial at 2-4 V dc, 100 mA
Minimum insulation resistance	: 500 MΩ
Dielectric strength	: 500 V rms at sea level
Operating temperature	: -30°C to 85°C
Degree of protection	: IP67

Materials:

Housing and Base	: Glass filled nylon 6/6 or 4/6, flame retardant, heat stabilized
Actuator	: Glass filled nylon 6/6, flame retardant, heat stabilized with standard internal o-ring seal
Switch Support	: Steel, whit nickel plate
Contacts / Terminals	: Sliver plate plated copper alloy

Switch Function

Number of Poles	Model Number	Switch Function		Connected Terminals / Schematic	
		Position 1	Position 2	Position 1	Position 2
SP	8US8	ON	MOM	5-6 NC 4* → 5 (Comm) → 6 NO	5-4 NC 4* → 5 (Comm) → 6 NO
	8US9	OFF	MOM	Open	4-6 4 ↑ ↑ 6
DP	8UD8	ON	MOM	2-3, 5-6 NC 1* → 2 (Comm) → 3 NO NC 4* → 5 → 6 NO	2-1, 5-4 NC 1* → 2 (Comm) → 3 ND NC 4* → 5 → 6 NO
	8UD9	OFF	MOM	Open	1-3, 4-6 1 ↑ ↑ 3 4 ↑ ↑ 6

MOM = Momentary

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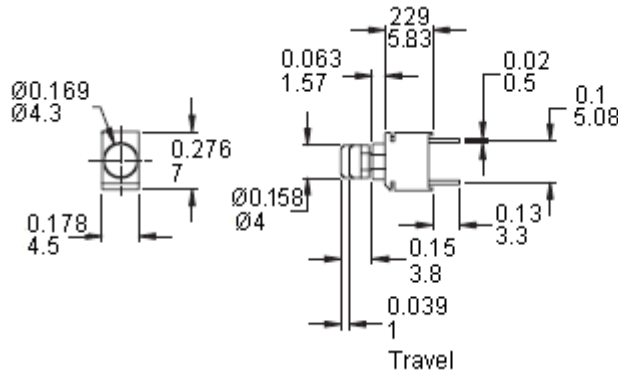
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Pole Options

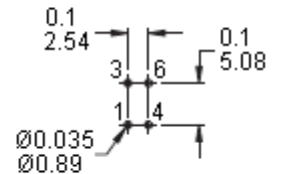
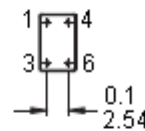
SPDT



8US9R2A2M2RES



PC Mounting

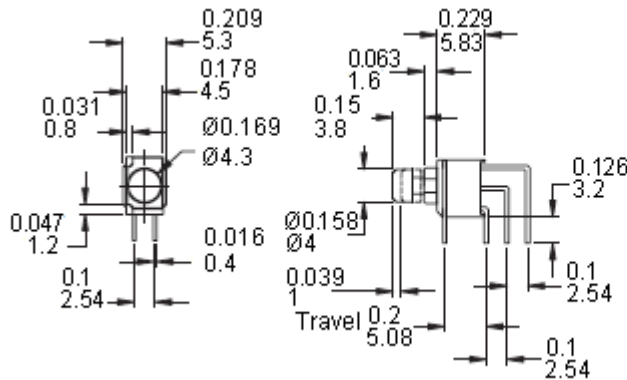


Dimensions : Inches (Millimetres)

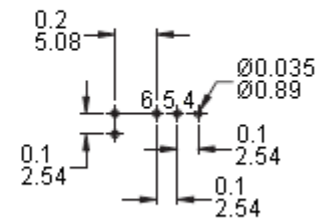
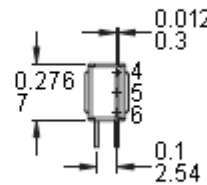
SPDT



8US8WR2C2M7RES



PC Mounting

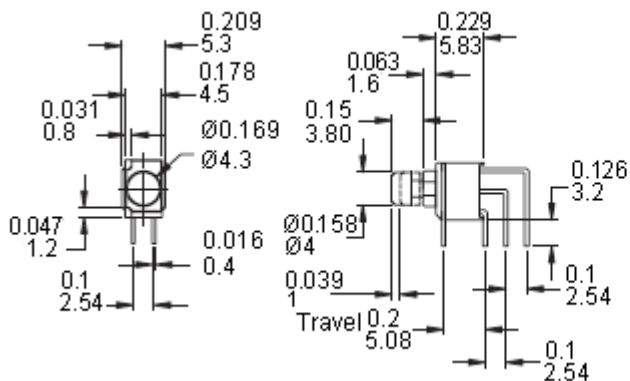


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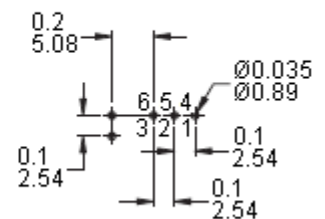
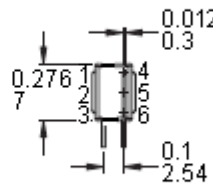
DPDT



8UD8WR2C2M7RES



PC Mounting



Dimensions : Inches (Millimetres)

Soldering Process:

Wave soldering : Recommended soldering temperature : 260 \pm 5°C
 : Duration of solder immersion : Maximum 5 seconds (PCB is 1.6 mm in thickness)

Soldering : Vapour phase

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Part Number Table

Description	Part Number
Switch, SPDT, Off-MOM, PCB, Sealed	8US9R2A2M6RES
Switch, SPDT, Off-MOM, Right / Angle, Sealed	8US9R2A2M7RES
Switch, SPDT, Off-MOM, Vert Right / Angle, Sealed	8US9R2A2M2RES
Switch, SPDT, On-MOM, Right / Angle, Sealed	8US8WR2C2M7RES
Switch, DPDT, On-MOM, Right / Angle, Sealed	8UD8WR2C2M7RES
Switch, DPDT, Off-MOM, PCB, Sealed	8UD9R2A2M2RES
Switch, DPDT, Off-MOM, Right / Angle, Sealed	8UD9R2A2M6RES
Switch, DPDT, Off-MOM, Vert Right / Angle, Sealed	8UD9R2A2M7RES

Part Number Explanation:

8US8

Model
Number

WR2

Actuator

C2

Bushing

M7

Terminations

R

Terminal
Material

E

Seal

S

RoHS
Soldering

Model Number	: 8US8 = SP On-Mom, 8UD8 = DP On-Mom, 8US9 = SP Off-Mom and 8UD9 = DP Off-Mom
Actuator	: WR2 = CAP (Black std), R2 = CAP (Black std)
Bushing	: C2 = 1.6 high (STD)
Terminations	: M2 = PC thru-hole, M6 = Right angle, PC thru-hole and M7 = Vertical right angle, PC thru-hole
Terminal Material	: R = Gold
Seal	: E = Epoxy (std)
RoHS Soldering	: S = RoHS and Lead Free

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