Toggle Switches
Sub-Miniature

Specifications:

|	
Contact Rating	: 0.4 volt-amps (VA) max. at 20V max. (AC or DC)
Mechanical Life	: 30,000 make-and-break cycles
Contact Resistance	: 20mΩ max. initial at 2 to 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:

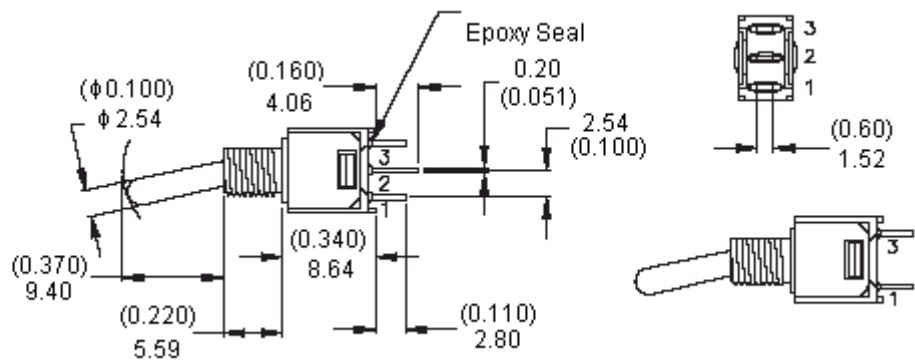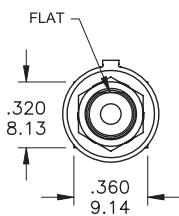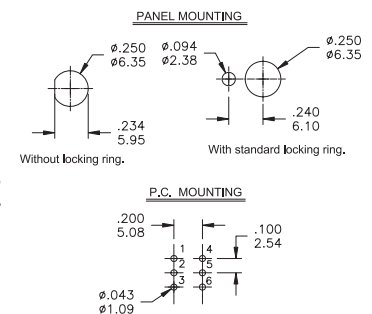|	
Case and Bushing	: Diallyl phthalate (DAP)
Actuator	: Brass, chrome plated
Bushing	: Brass, nickel plated
Housing	: Stainless steel
Switch Support	: Brass, tin plated
Terminals/Contact	: Brass with gold plated

Pole Option

M2RE
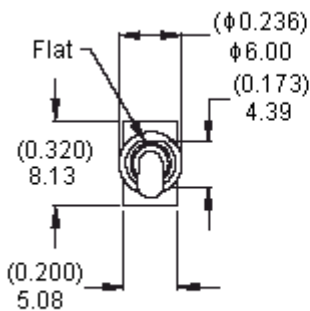
SPDT

Pole Option

M2RE

DPDT

Dimensions : Millimetres (Inches)

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Toggle Switches
Sub-Miniature

Pole Option

M6RE — SPDT

Dimensions : Millimetres (Inches)

M6RE — DPDT

Dimensions : Millimetres (Inches)

M7RE — SPDT
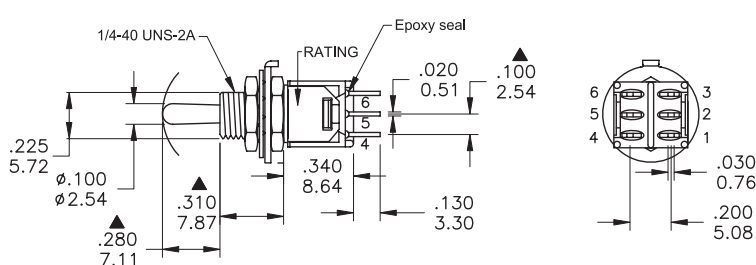

Dimensions : Millimetres (Inches)

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Farnell.com/multicomp-pro
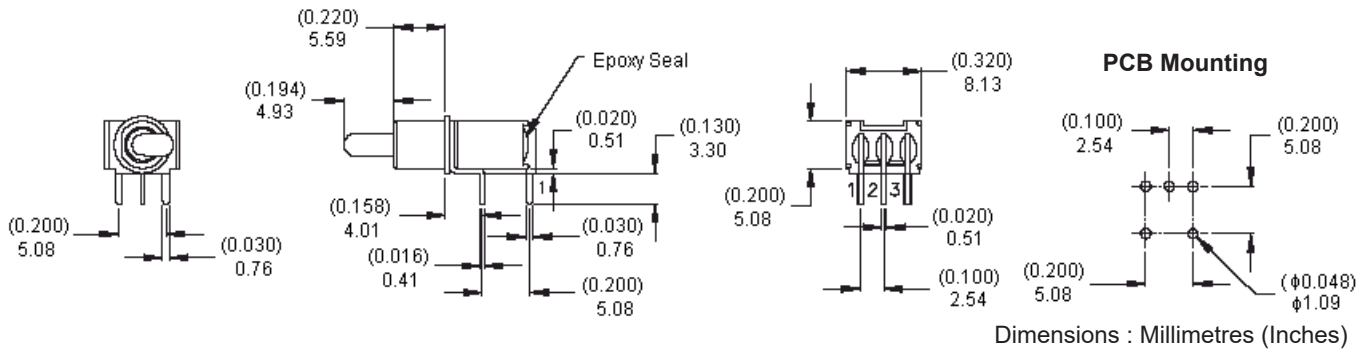sg.element14.com/b/multicomp-pro

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Toggle Switches
Sub-Miniature

Pole Option

M6RE   **SPDT**

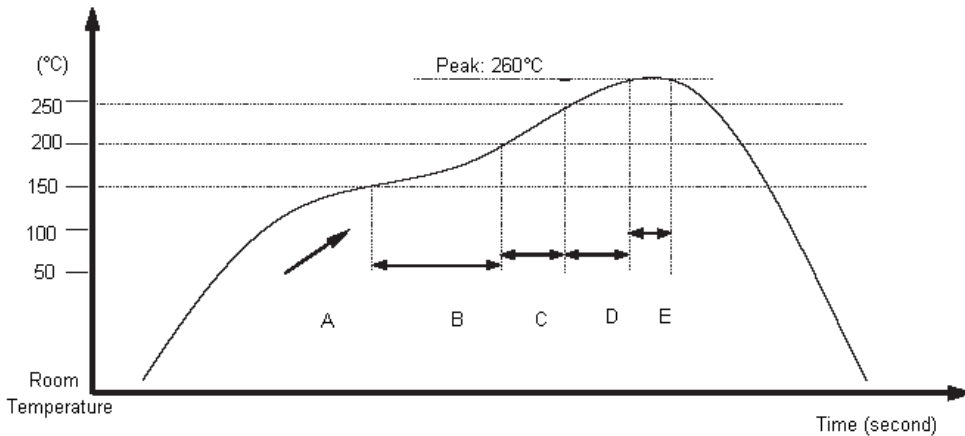Dimensions : Millimetres (Inches)
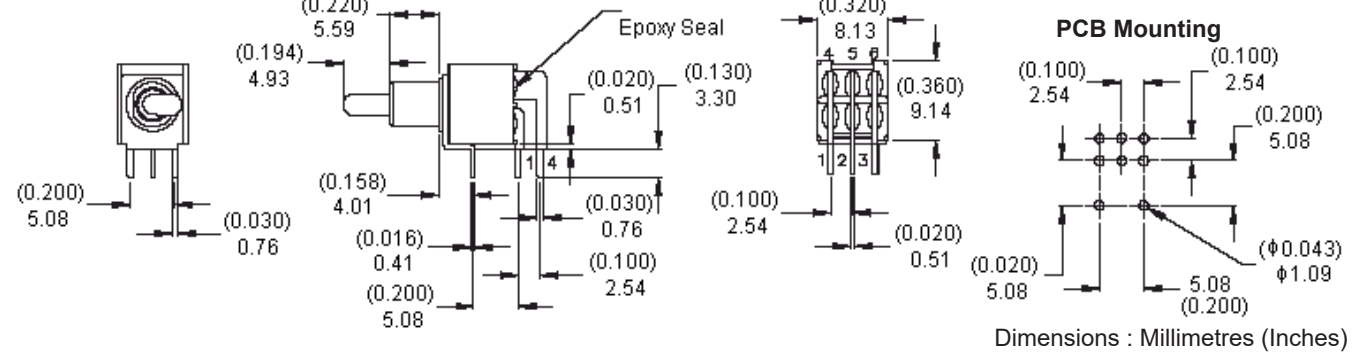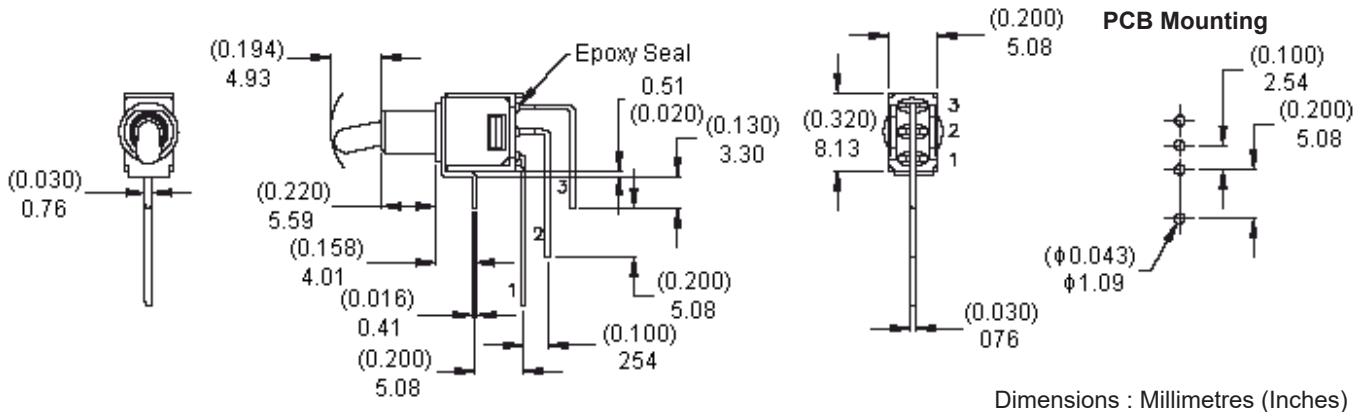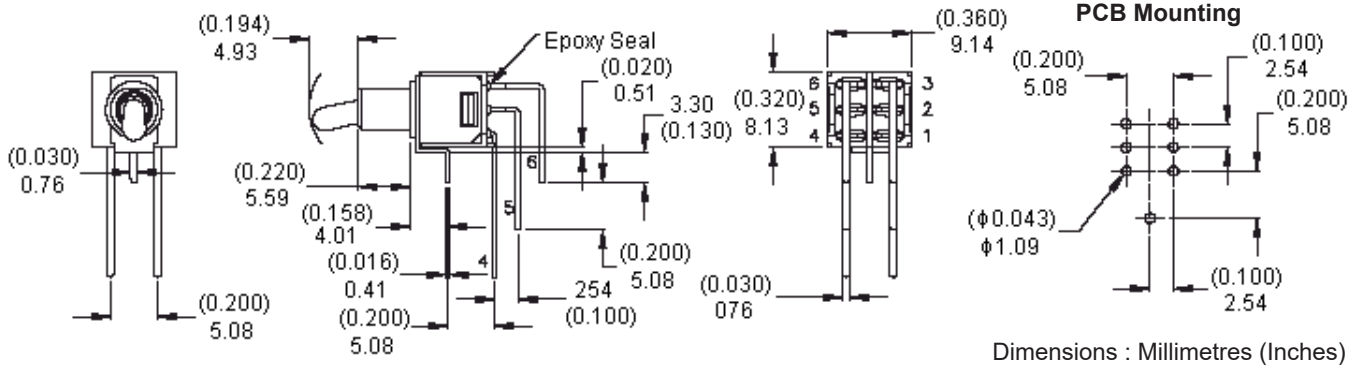
Soldering Process:

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	: 5 ±1 seconds (PCB is 1.6mm in thickness).
Soldering	: Vapour phase.

Temperature Profile		
Zone	**Room Temperature (°C)**	**Time (seconds)**
Pre-heat (A)	150°C	Min. 120
Soak (B)	180°C to 200°C	Min. 150
Peak (C)	200°C to 235°C	Min. 30
Peak (D)	235°C to 260°C	Min. 40
Peak (E)	260°C	Max. 10

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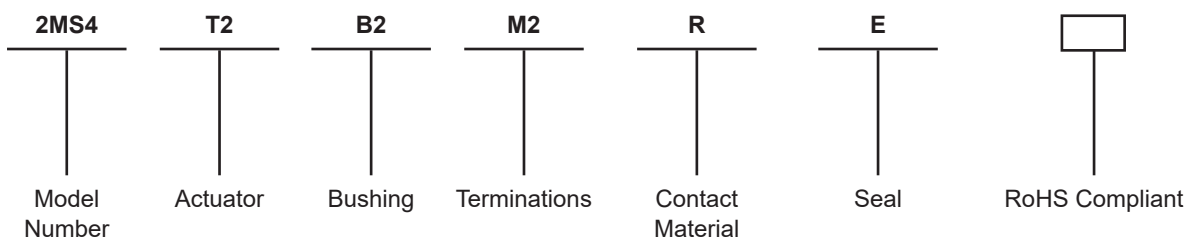sg.element14.com/b/multicomp-pro

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Toggle Switches
Sub-Miniature

Specifications

Number of Poles	Switch Function			Connected Terminals/Schematic			Model Number
	Position 1	Position 2	Position 3	Position 1	Position 2	Position 3	
SP	On	None	On	2 - 3	N/A	2 - 1	2MS1
			Mom				2MS2
		Off	On		Open		2MS3
	Mom		Mom				2MS4
	On						2MS5
DP	On	None	On	2 - 3, 5 - 6	-	2 - 1, 5 - 4	2MD1
			Mom		-		2MD2
		Off	On		-		2MD3
		On	On	2 - 3, 5 - 6	2 - 3, 5 - 4	2 - 1, 5 - 4	2MD6

Mom = Momentary

Part Number Explanation:

2MS4	T2	B2	M2	R	E	☐
Model Number	Actuator	Bushing	Terminations	Contact Material	Seal	RoHS Compliant

Model Number : 2MS1 = SP On-None-On, 2MS2 = SP On-None-Mom, 2MS3 = SP On-Off-On, 2MS4 = SP Mom-Off-Mom, 2MS5 = SP On-Off-Mom, 2MD1 = DP On-None-On, 2MD2 = DP On-None-Mom, 2MD3 = DP On-Off-On and 2MD6 = DP On-On-On

Actuator : T1 = 9.40 High and T2 = 5.33 High

Bushing : B2 = 5.59 High, Flat (Non-thd) and B5 = 7.87 High, Flat (thd)

Terminations : M2 = PVC Through Hole, M6 = Right Angle, PVC Through Hole and M7 = Vertical Right Angle, PVC Through Hole

Contact Material : R = Gold

Seal : E = Epoxy (STD)

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Part Number Table

Description	Part Number
Switch, Toggle, SPDT, Vertical, Mom-Off-Mom	2MS4T2B2M2RE
Switch, Toggle, SPDT, Vertical, On-Off-Mom	2MS5T2B2M2RE
Switch, Toggle, DPDT, Vertical, On-Mom	2MD2T2B2M2RE
Switch, Toggle, DPDT, Vertical, On-On-On	2MD6T2B2M2RE
Switch, Toggle, SPDT, Horizontal R/A, On-Mom	2MS2T2B2M6RE
Switch, Toggle, SPDT, Horizontal R/A, Mom-Off-Mom	2MS4T2B2M6RE
Switch, Toggle, SPDT, Horizontal R/A, On-Off-Mom	2MS5T2B2M6RE
Switch, Toggle, DPDT, Horizontal R/A, On-Mom	2MD2T2B2M6RE
Switch, Toggle, DPDT, Horizontal R/A, On-Off-On	2MD3T2B2M6RE
Switch, Toggle, DPDT, Horizontal R/A, On-On-On	2MD6T2B2M6RE
Switch, Toggle, SPDT, Vertical R/A, On-Mom	2MS2T2B2M7RE
Switch, Toggle, SPDT, Vertical R/A, On-On	2MS1T2B2M7RE
Switch, Toggle, SPDT, Vertical R/A, Mom-Off-Mom	2MS4T2B2M7RE
Switch, Toggle, SPDT, Vertical R/A, On-Off-On	2MS3T2B2M7RE
Switch, Toggle, SPDT, Vertical R/A, On-Off-Mom	2MS5T2B2M7RE
Switch, Toggle, DPDT, Vertical R/A, On-Mom	2MD2T2B2M7RE
Switch, Toggle, DPDT, Vertical R/A, On-On	2MD1T2B2M7RE
Switch, Toggle, DPDT, Vertical R/A, On-Off-On	2MD3T2B2M7RE
Switch, Toggle, DPDT, Vertical R/A, On-On-On	2MD6T2B2M7RE
Switch, Toggle, SPDT, Vertical Threaded, On-Mom	2MS2T1B5M2RE
Switch, Toggle, SPDT, Vertical Threaded, Mom-Off-Mom	2MS4T1B5M2RE
Switch, Toggle, SPDT, Vertical Threaded, On-Off-Mom	2MS5T1B5M2RE
Switch, Toggle, DPDT, Vertical Threaded, On-Mom	2MD2T1B5M2RE
Switch, Toggle, DPDT, Vertical Threaded, On-On-On	2MD6T1B5M2RE

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