

Toggle Switches

Sub-Miniature - Sealed



Specifications:

Contact Rating : 0.4 volt-amps (VA) maximum at 20V maximum (AC or DC).
Mechanical Life : 30,000 make-and-break cycles.
Contact Resistance : 20m Ω maximum initial at 2 to 4V dc.
100mA for both silver and gold plated contacts.

Minimum Insulation Resistance : 1,000M Ω .
Dielectric Strength : 1,000VRMS at sea level.
Operating Temperature : -30°C to 85°C.

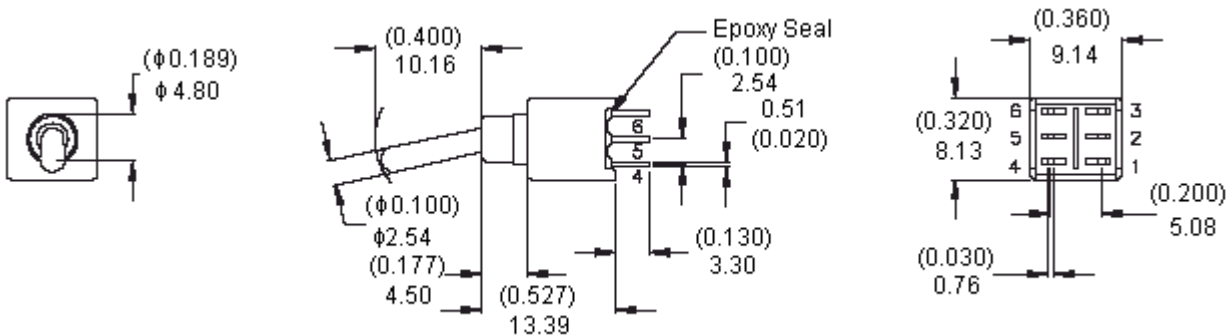
Materials:

Case and Bushing : Glass filled nylon 66, heat stabilized.
Actuator : Brass, chrome plated, internal, O-ring seal. Standard for all actuators.
Switch Support : Brass, tin plated.
Contacts/Terminals : Copper alloy, with gold plated.

Pole Option

M2RE

DPDT



Dimensions : Millimetres (Inches)

Toggle Switches

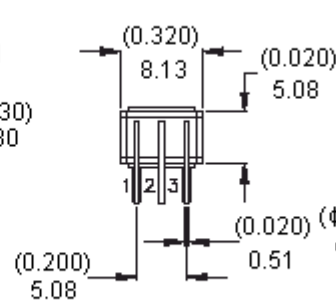
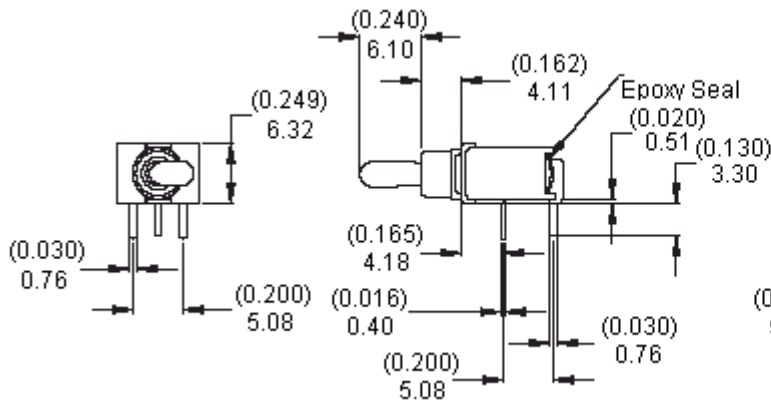
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Pole Option

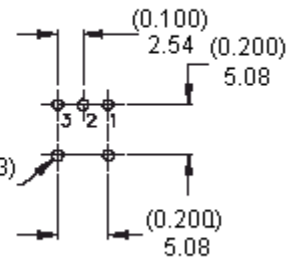
M6RE

SPDT



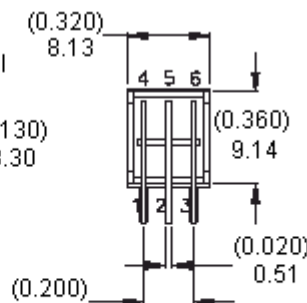
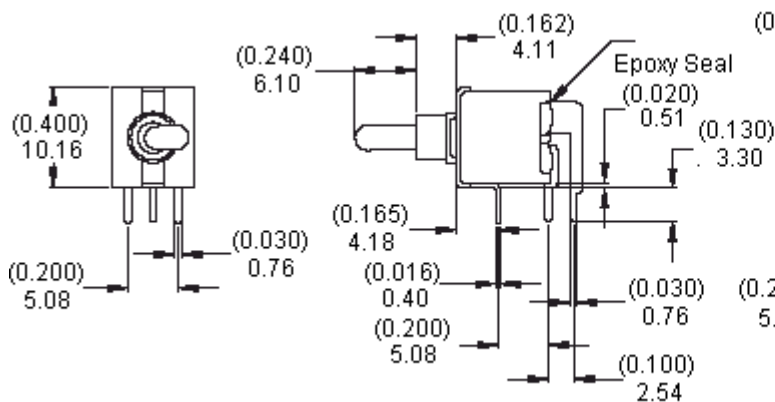
Section A - A
Terminal
Numbers for
Reference Only

PCB Mounting



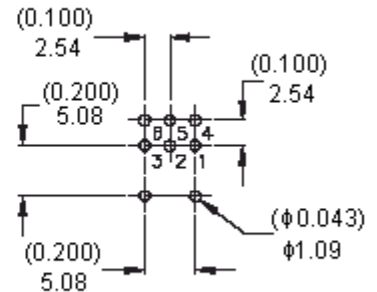
Dimensions : Millimetres (Inches)

DPDT



Section A - A
Terminal
Numbers for
Reference Only

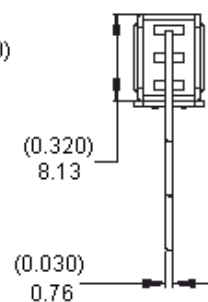
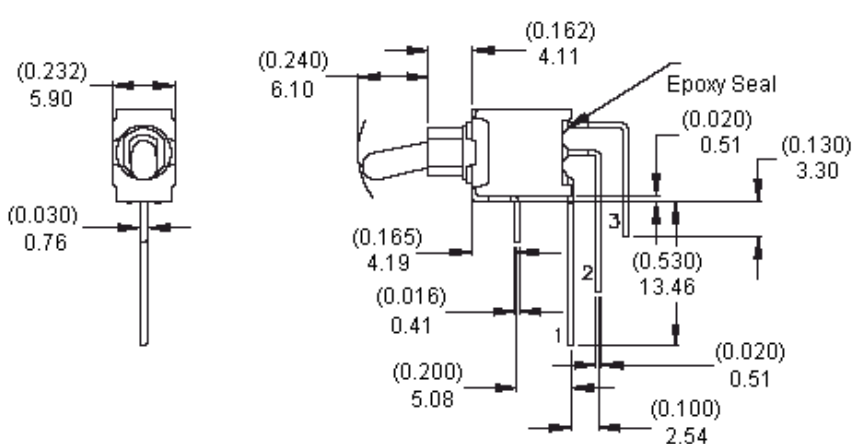
PCB Mounting



Dimensions : Millimetres (Inches)

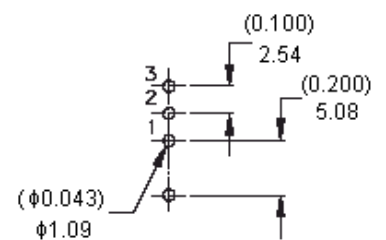
M7RE

SPDT



Section A - A
Terminal
Numbers for
Reference Only

PCB Mounting



Dimensions : Millimetres (Inches)



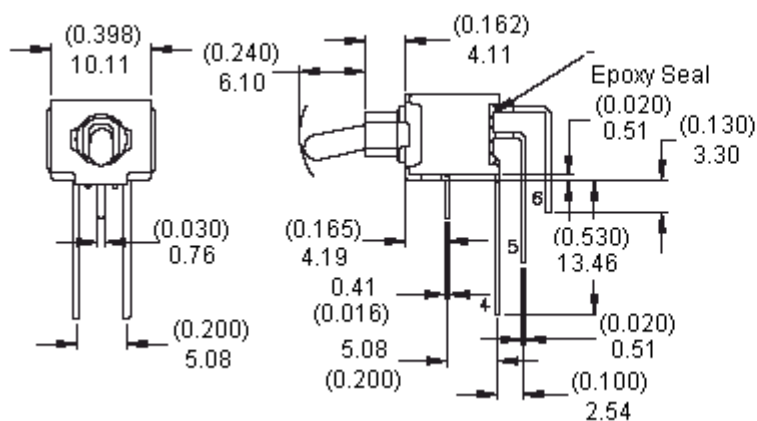
Toggle Switches

Sub-Miniature - Sealed

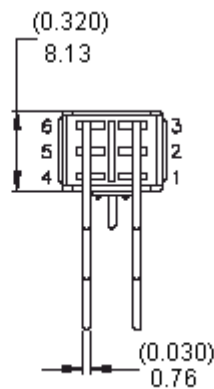


Pole Option

M7RE

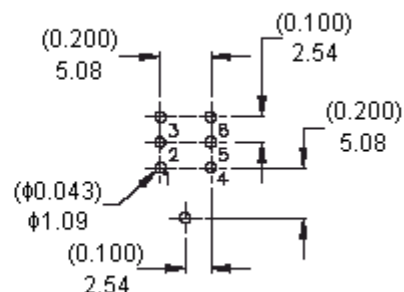


DPDT



Section A-A
Terminal
Numbers for
Reference Only

PCB Mounting



Dimensions : Millimetres (Inches)

Soldering Process:

Manual soldering: Use soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder.

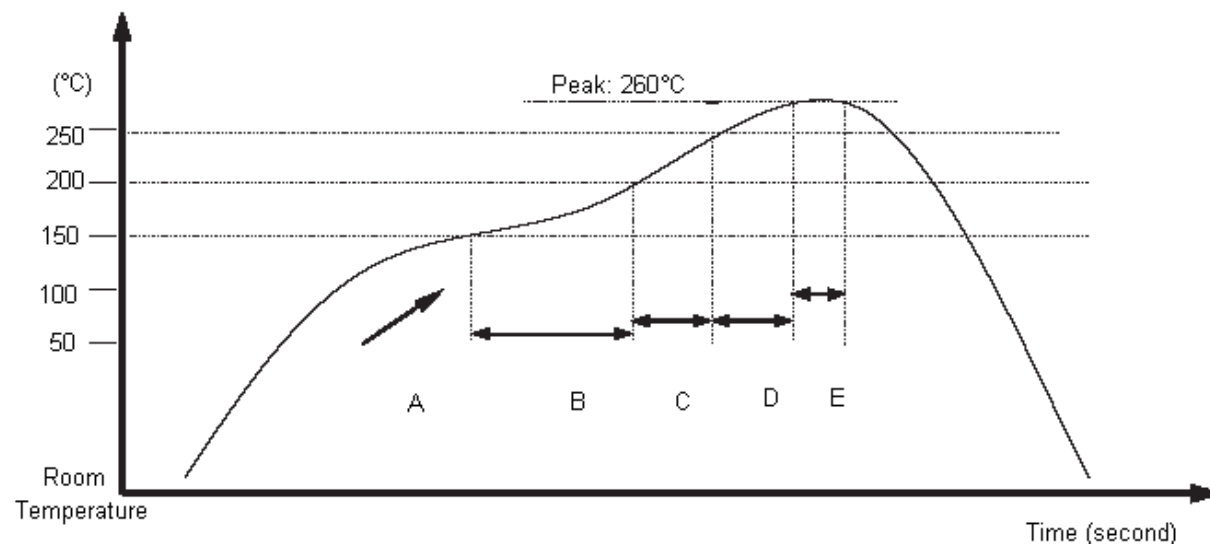
Wave soldering:

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

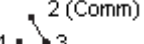
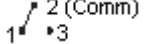
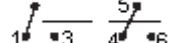
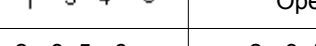
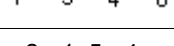


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Specifications

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	Mom	2 - 3	N/A	2 - 1	2AS2
	Mom	Off			Open		2AS4
	On						2AS5
DP	On	None	On	2 - 3, 5 - 6	N/A	2 - 1, 5 - 4	2AD1
			Mom				2AD2
		Off	On		Open		2AD3
		On			2 - 3, 5 - 6		2 - 3, 5 - 4

Mom = Momentary

Specification Table

Description	Part Number
Switch, Toggle, DPDT, Vertical, On-Mom	2AD2T2A2M2RE
Switch, Toggle, DPDT, Vertical, On-On	2AD1T2A2M2RE
Switch, Toggle, DPDT, Vertical, On-Off-On	2AD3T2A2M2RE
Switch, Toggle, DPDT, Vertical, On-On-On	2AD6T2A2M2RE
Switch, Toggle, SPDT, Horizontal R/A, Mom-Off-Mom	2AS4T2A1M6RE
Switch, Toggle, Horizontal R/A, On-Mom	2AD2T2A2M6RE
Switch, Toggle, DPDT, Horizontal R/A, On-On	2AD1T2A2M6RE
Switch, Toggle, DPDT, Horizontal R/A, On-On-On	2AD6T2A2M6RE
Switch, Toggle, SPDT, Vertical R/A, On-Mom	2AS2T2A1M7RE
Switch, Toggle, SPDT, Vertical R/A, Mom-Off-Mom	2AS4T2A1M7RE
Switch, Toggle, SPDT, Vertical R/A, On-Off-Mom	2AS5T2A1M7RE
Switch, Toggle, DPDT, Vertical R/A, On-Mom	2AD2T2A2M7RE
Switch, Toggle, DPDT, Vertical R/A, On-On	2AD1T2A2M7RE
Switch, Toggle, DPDT, Vertical R/A, On-Off-On	2AD3T2A2M7RE
Switch, Toggle, DPDT, Vertical R/A, On-On-On	2AD6T2A2M7RE

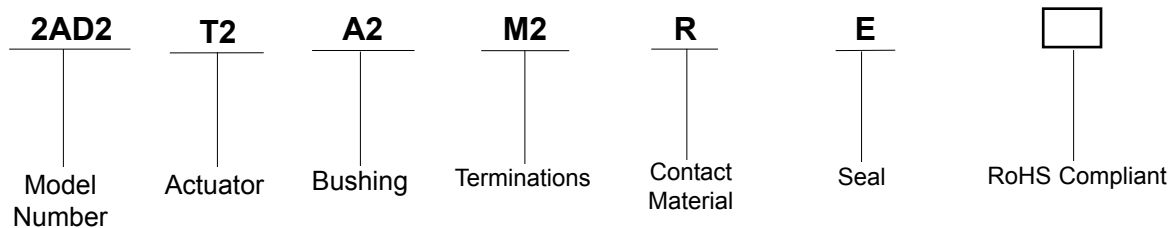


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Part Number Explanation:



Model Number	: 2AS2 = SP On-None-Mom, 2AS4 = SP Mom-Off-Mom, 2AS5 = SP On-Off-Mom, 2AD1 = DP On-None-On, 2AD2 = DP On-None-Mom, 2AD3 = DP On-Off-On and 2AD6 = DP On-On-On.
Actuator	: T2 = 6.10 High.
Bushing	: A1 = SP 4.65 High and A2 = DP 4.50 High.
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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Notes:

International Sales Offices:

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