



### element<sub>14</sub>

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2MD2T2B2M2RE

ΕN

This Datasheet is presented by the manufacturer

DE

Dieses Datenblatt wird vom Hersteller bereitgestellt FR

Cette fiche technique est présentée par le fabricant

### **Sub-Miniature**





### **Specifications:**

Contact Rating : 0.4 volt-amps (VA) maximum at 20V maximum (AC or DC).

 $\begin{array}{lll} \mbox{Mechanical Life} & : 30,000 \mbox{ make-and-break cycles.} \\ \mbox{Contact Resistance} & : 20m\Omega \mbox{ maximum initial at 2 to 4V dc.} \end{array}$ 

100mA for both silver and gold plated contacts.

Minimum Insulation Resistance :  $1,000M\Omega$ .

Dielectric Strength : 1,000VRMS at sea level.

Operating Temperature : -30°C to 85°C.

Materials:

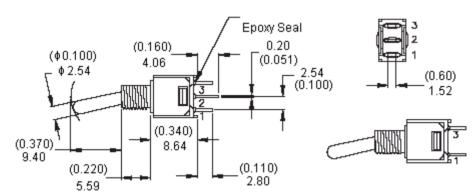
Case and Bushing : Diallyl phthalate (DAP).
Actuator : Brass, chrome plated.
Bushing : Brass, nickel plated.
Housing : Stainless steel.
Switch Support : Brass, tin plated.
Terminals/Contact : Brass, with gold plated.

### Pole Option

### M2RE

# (0.200) 5.08

#### **SPDT**



Dimensions : Millimetres (Inches)

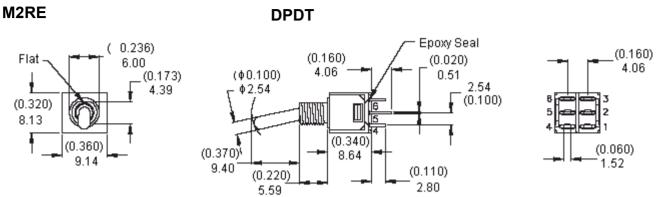


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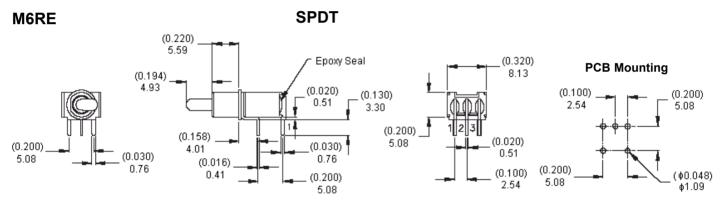
### **Sub-Miniature**



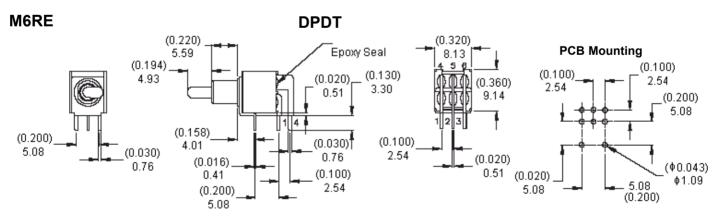
### **Pole Option**



Dimensions: Millimetres (Inches)



Dimensions : Millimetres (Inches)



Dimensions: Millimetres (Inches)



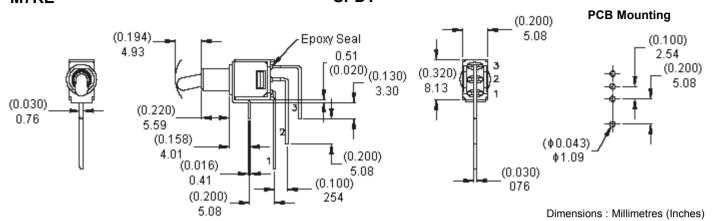
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### **Sub-Miniature**

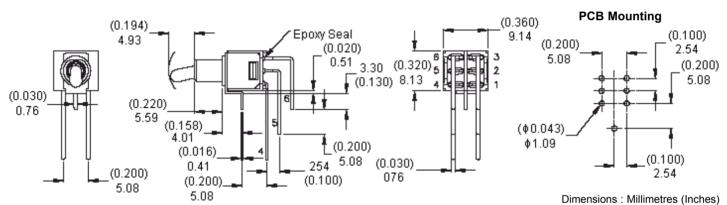


# Pole Option M7RE

#### **SPDT**



M7RE DPDT



#### **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 :  $260 \pm 5^{\circ}$ C.

Duration of solder immersion: 5 ±1 seconds (PCB is 1.6mm in thickness).

Soldering: Vapour phase.

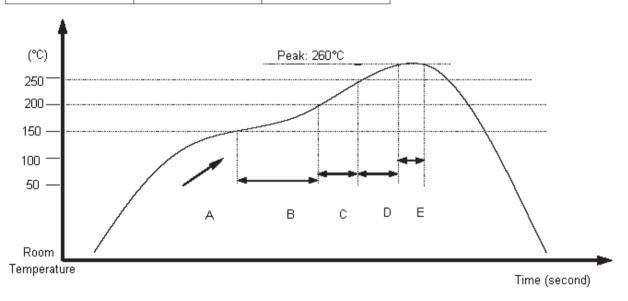


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### **Sub-Miniature**



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				



### **Specifications**

	Switch Function		Connected Terminals/Schematic					
Number of Poles	Position 1	Position 2	Position 3	Position 1	Position 2	Position 3	Model Number	
	7							
SP	On	None	On	On 2 - 3 On 1 - 3 Mom	N/A		2MS1	
			Mom			2 - 1 2 (Comm) 1 • 3	2MS2	
			On		Open		2MS3	
	Mom	Off	Mom				2MS4	
	On						2MS5	
DP	On	No	None	On	2 - 3, 5 - 6		2 - 1, 5 - 4	2MD1
		None	Mom	2 (Comm) 1* 3 4* 6		2 (Comm) 1 3 4 6	2MD2	
		Off	On				2MD3	
		On		2 - 3, 5 - 6	2 - 3, 5 - 4	2 - 1, 5 - 4	2MD6	

Mom = Momentary



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### **Sub-Miniature**



### **Specification Table**

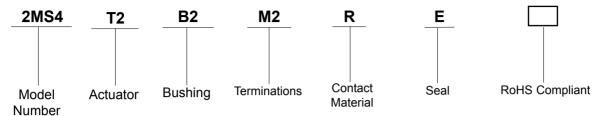
Description	Part Number		
Switch, Toggle, SPDT, Vertical, Mom-Off-Mom	2MS4T2B2M2RE		
Switch, Toggle, SPDT, Vertical, On-Off-Mom	2MS5T2B2M2RE		
Switch, Toggle, DPDT, Vertical, On-Mom	2MD2T2B2M2RE		
Switch, Toggle, DPDT, Vertical, On-On-On	2MD6T2B2M2RE		
Switch, Toggle, SPDT, Horizontal R/A, On-Mom	2MS2T2B2M6RE		
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		



### Sub-Miniature



#### **Part Number Explanation:**



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).



### Sub-Miniature



Notes:

#### **International Sales Offices:**



Tel No: ++61 1300 361 005 Fax No: ++61 1300 361 225



FINLAND - Farnell

Tel No: ++ 358 9 560 7780 Fax No: ++ 358 9 345 5411



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