





### **Specifications:**

Contact rating : Dependent upon content material
Mechanical life : 50,000 make-and-break cycles
Maximum contact resistance : 20mΩ initial at 2 to 4V DC

100mA for both silver and gold plated contacts

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

Dielectric strength : 1,000V RMS at sea level

Operating temperature : -30°C to +85°C

### **Materials:**

Case : Diallyl phthalate (DAP)
Plunger : Thermoplastic Polyester-black

Bushing : Brass, Nickel Plated
Housing : Stainless steel
Contact : Silver or Gold Plated
Terminal : Brass, Silver Plated
Terminal support : Brass, Tin Plated

### **Switch Function**

	Model Number	Switch Function		Connected Terminals / Schematic		
Number of		Position 1	Position 2	Position 1	Position 2	
Poles		4	1	<b>.</b>	4	
SP	T Ô8BS8	ON	MOM	2-1 NC1 • 3 NO	2-3 NC 1 • \( \frac{2(Comm)}{3 NO} \)	
J.	T Ô8BS9	OFF	МОМ	Open	1-3 1 1 1 1 3	
DP	T Ô8MD9	OFF	MOM	Open	1-3, 4-6 1 T 3 4 T 6	

**MOM = Momentary** 



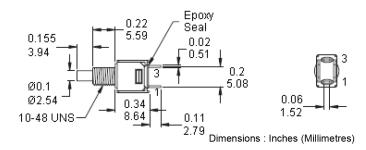


### **Pole Options**

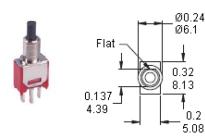
### **SPDT**

### 00.24 06.1 Flat 0.32 8.13 0.137 4.39 0.2 5.08

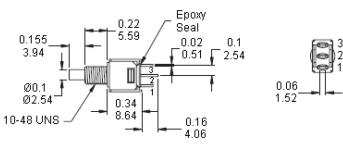
#### MC8MS9P1B05M1QE



### **SPDT**



#### MC8MS8P1B05M1QES

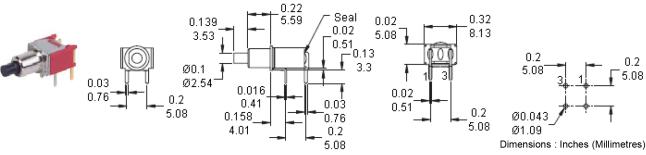


Dimensions : Inches (Millimetres)



### MC8MS9P1B06M6RES

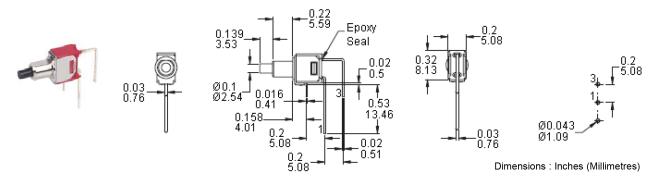
### PC Mounting



**SPST** 

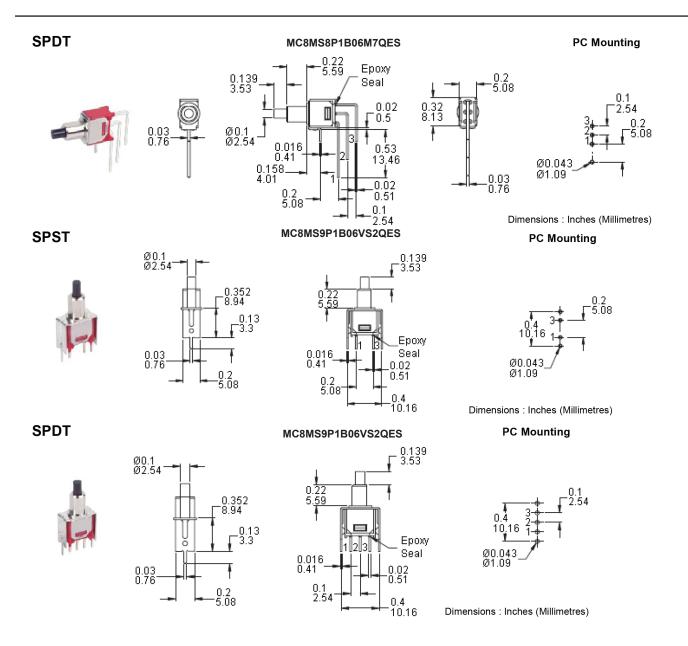
### MC8MS9P1B06M7QES

**PC Mounting** 









### **Switch Function**

		Switch Function		Connected Terminals / Schematic		
Number of	Model Number	Position 1	Position 2	Position 1	Position 2	
Poles		4	1	<b>.</b>	•	
SP	MC8MSL	ON	ON	2 (Comm) 2-1 NC 1 • 3 NO	NC 1 • \(^2\)(Comm) 2-3	

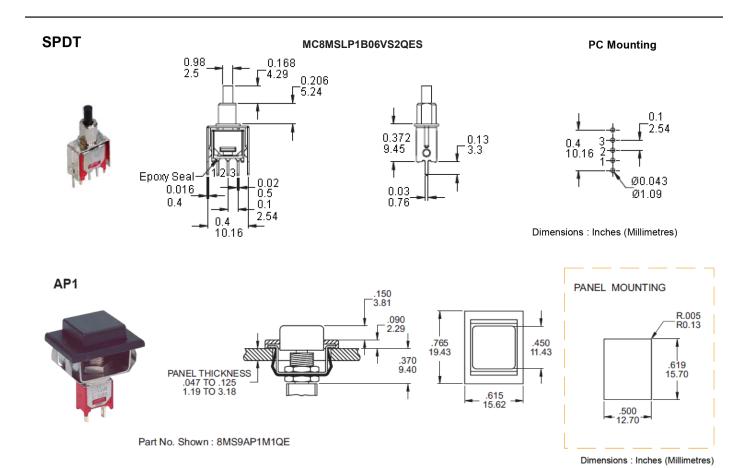




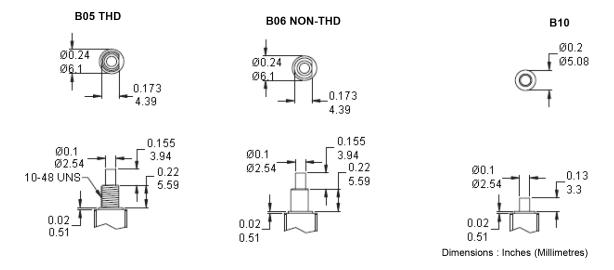
#### **Pole Options SPDT** MC8MSLP1B05M1QES-5 0.168 4.29 0.318 8.1 Ø0.098 J Ø2.5 0.201 5.1 0.06 10-48 UNS Epoxy Seal 1.88 ±0.3 (Full Travel) -1.34 ±0.25 (Operating Travel) Dimensions: Inches (Millimetres) **SPDT** MC8MSLP1B05M2QES 0.168 4.29 Ø0.24 Ø6.1 Ø0.098₫ Ø2.5 0.201 Epoxy Seal 0.03 5.1 0.76 1.88 ± 0.3 (Full Travel) 1.34 ± 0.25 (Operating Travel) Dimensions : Inches (Millimetres) **SPDT** MC8MSLP1B06M6RES **PC Mounting** 0.379 9.62 0.206 5.24 0.16<u>8</u> 4.29 Ø240 Ø6.1 Epoxy Seal Ø98 0.02 0.5 Ø2.5 0.15<u>4</u> 3.91 0.03 0.76 0.2 5.08 0.01<u>6</u> 0.4 0.1 2.54 0.225 5.72 Dimensions: Inches (Millimetres) **SPDT** MC8MSLP1B06M7QES **PC Mounting** 0.206 5.24 0.169\_ Ø0.24 Epoxy Seal Ø6.1 0.1 0.32 8.13 Ø0.098 Ø2.5 $0.03 \\ 0.76$ 0.02 0.01<u>6</u> 0.4 0.5 Ø0.04 Ø1.09 0.1 2.54 0.03 0.76 Dimensions : Inches (Millimetres)







### **Bushing Options**

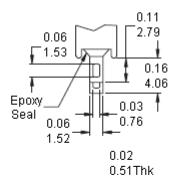




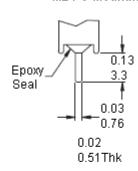


### **Termination Options**

#### M1 Solder LUG



### **M2 PC Mounting**



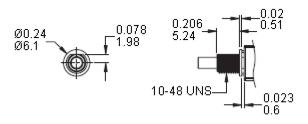
Dimensions: Inches (Millimetres)

### **Other Termination Options**

M6 = Right Angle PC Mount M7 = Right Angle PC Mount VS2 = Vertical Bracket PC Mount

### **Bushing Options**

### **B05 THD**



Dimensions: Inches (Millimetres)

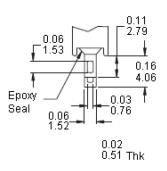
# 806 NON-THD 0.024 06.1 0.078 0.206 0.51

Dimensions: Inches (Millimetres)

0.023 0.6

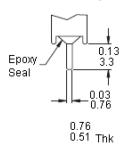
### **Termination Options**

#### M1 Solder LUG



Dimensions : Inches (Millimetres)

#### **M2 PC Mounting**



Dimensions : Inches (Millimetres)





### **Other Termination Options**

M6 = Right Angle PC Mount M7 = Right Angle PC Mount VS2 = Vertical Bracket PC Mount

### **Contact Material Options**

	Contact Plating	Terminal Plating	Ratings
Q	Silver	Q = Silver	3 Amperes with resistant load at 120V ac or 28 V dc 1 Ampere with resistant load at 250 V ac
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)

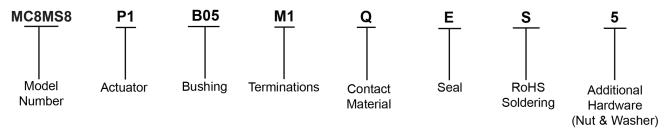
### **Part Number Table**

Description	Part Number
Switch, SPDT, Off-MOM, Solder	MC8MS9P1B05M1QE
Switch, SPDT, On-MOM, Solder	MC8MS8P1B05M1QES
Switch, DPDT, Off-MOM, PCB	MC8MD9P1B10M2RES
Switch, SPST, Off-MOM, Right / Angle	MC8MS9P1B06M6RES
Switch, DPDT, Off-MOM, Right / Angle	MC8MD9P1B10M6RES
Switch, SPST, Off-MOM, Vert Right / Angle	MC8MS9P1B06M7QES
Switch, SPDT, On-MOM, Vert Right / Angle	MC8MS8P1B06M7QES
Switch, SPST, Off-MOM, V-Bracket	MC8MS9P1B06VS2QES
Switch, SPDT, On-MOM, V-Bracket	MC8MS8P1B06VS2QES
Switch, SPÙT, Off-MOM, Solder	MC8MS9AP122M1QES
Switch, SPDT, On-On, Solder	MC8MSLP1B05M1QES-5
Switch, SPDT, On-On, PCB	MC8MSLP1B06M2QES
Switch, SPDT, On-On, Right / Angle	MC8MSLP1B06M6RES
Switch, SPDT, On-On, Vert Right / Angle	MC8MSLP1B06M7QES
Switch, SPDT, On-On, V-Bracket	MC8MSLP1B06VS2QES





### **Part Number Explanation:**



Model Number : 8MS8 = On-Mom, 8MS9 = Off-Mom and 8MSL = On-On

Actuator : P1 = 3.94 high

Bushing :B05 = 5.59 high, flat (thd), B06 = 5.59 high, flat (non-thd) and B10 = 3.30 high

Frame Colour / Actuator Colour : 22 = Black (Standard)

Terminations : M1 = Solder Lug, M2 = PC thru-hole, M6 = Right angle, PC thru-hole, M7 = Vertical

right angle, PC thru-hole and VS2 = 8.94 high, V-bracket

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

RoHS Soldering : S = RoHS and Lead Free

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