

Pushbutton Switches

Sub-Miniature



Specifications:

Contact rating	: Dependent upon contact material
Mechanical life	: 50,000 make-and-break cycles
Maximum contact resistance	: 20mΩ initial at 2 to 4 V DC 100mA for both silver and gold plated contacts
Minimum insulation resistance	: 1,000MΩ
Dielectric strength	: 1,000Vrms 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

Number of Poles	Model Number	Switch Function		Connected Terminals / Schematic	
		Position 1	Position 2	Position 1	Position 2
SP	MC8BS8	ON	MOM	2-1 	2-3
	MC8BS9	OFF	MOM	Open	1-3
DP	MC8MD9	OFF	MOM	Open	1-3, 4-6

MOM = Momentary

Pushbutton Switches

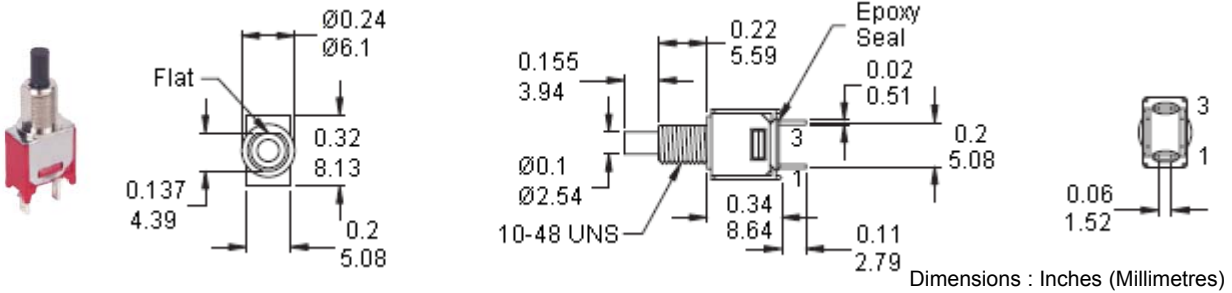


Sub-Miniature

Pole Options

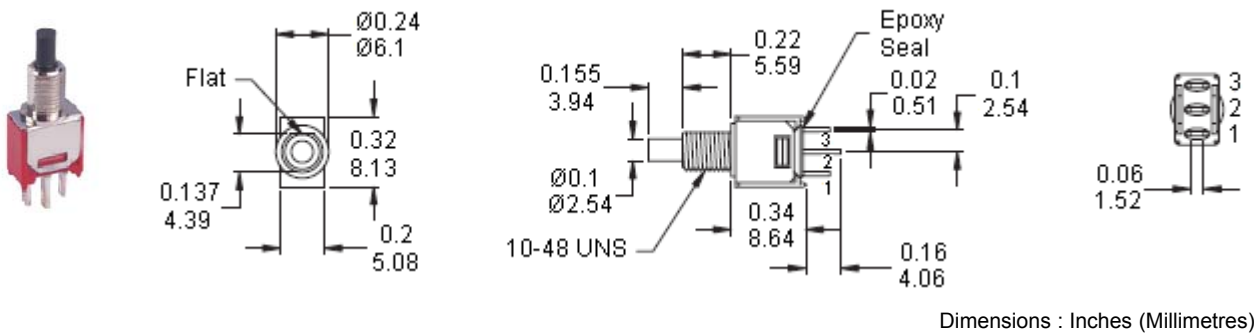
SPST

MC8MS9P1B05M1QE



SPDT

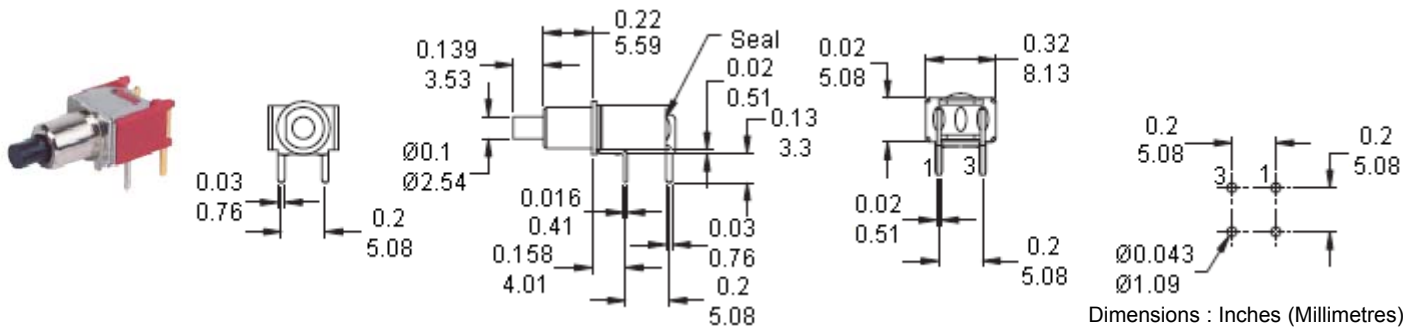
MC8MS8P1B05M1QES



SPST

MC8MS9P1B06M6RES

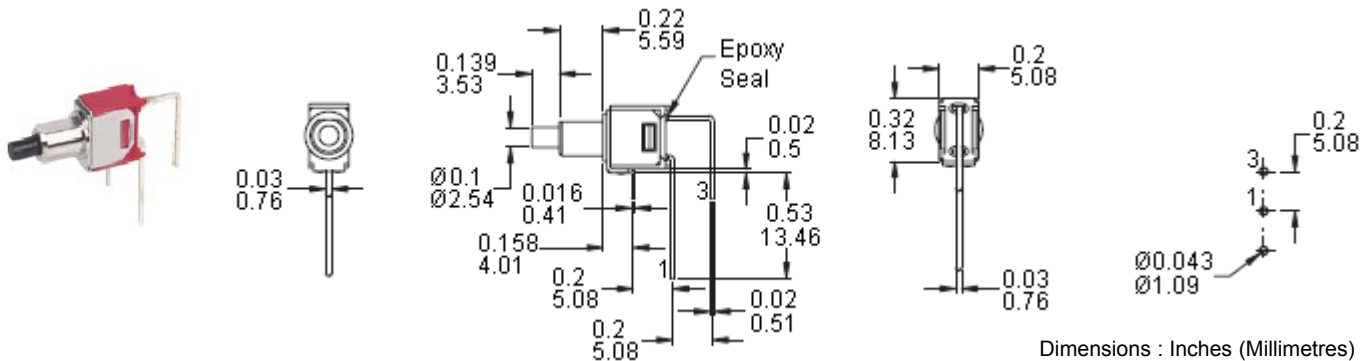
PC Mounting



SPST

MC8MS9P1B06M7QES

PC Mounting

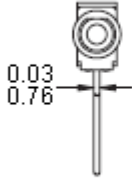


Pushbutton Switches

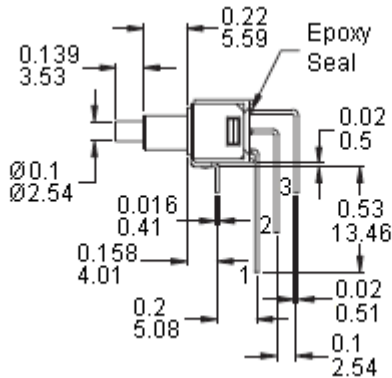
Sub-Miniature



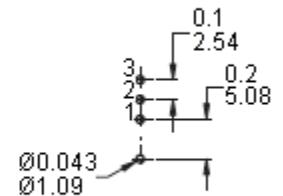
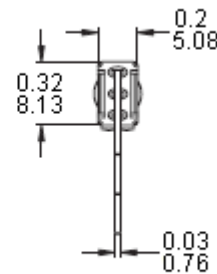
SPDT



MC8MS8P1B06M7QES

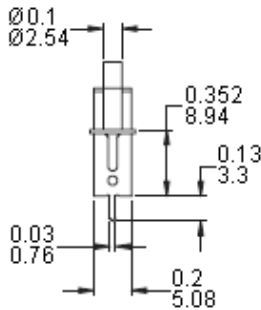


PC Mounting

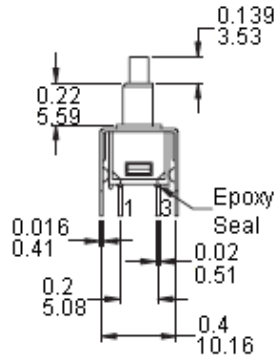


Dimensions : Inches (Millimetres)

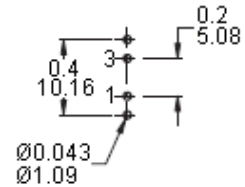
SPST



MC8MS9P1B06VS2QES

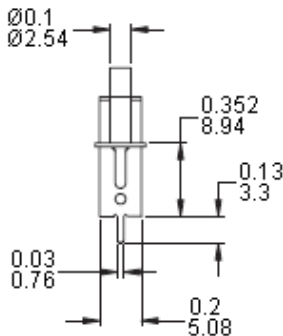


PC Mounting

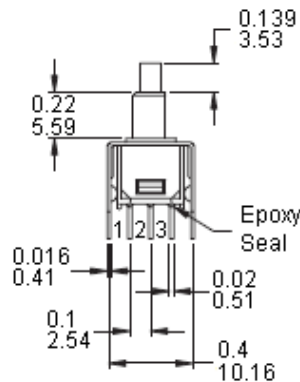


Dimensions : Inches (Millimetres)

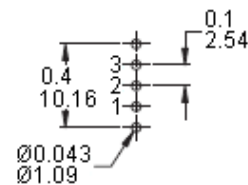
SPDT



MC8MS8P1B06VS2QES



PC Mounting



Dimensions : Inches (Millimetres)

Switch Function

Number of Poles	Model Number	Switch Function		Connected Terminals / Schematic	
		Position 1	Position 2	Position 1	Position 2
SP	MC8MSL	ON	ON	2-1 NC 1 • 2 (Comm) • 3 NO	2-3 NC 1 • 2 (Comm) • 3 NO

MOM = Momentary

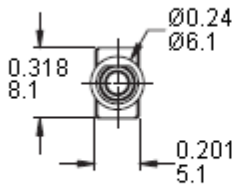
Pushbutton Switches



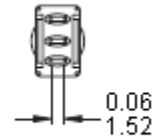
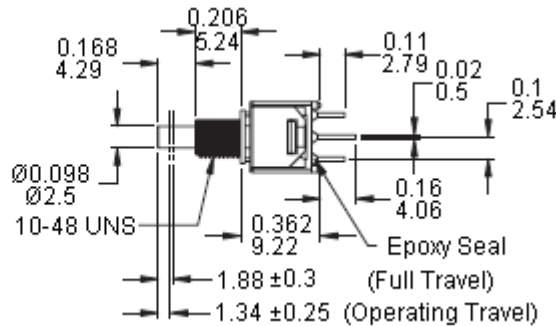
Sub-Miniature

Pole Options

SPDT

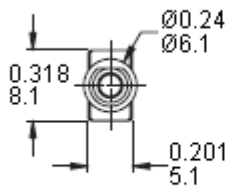


MC8MSLP1B05M1QES-5

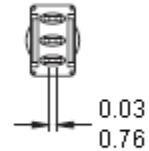
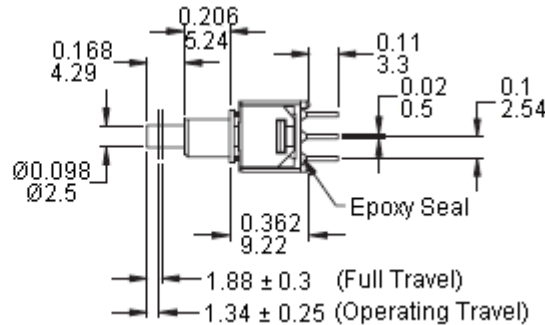


Dimensions : Inches (Millimetres)

SPDT

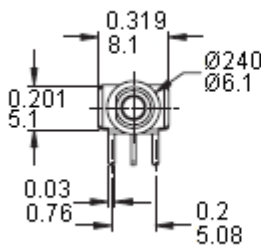


MC8MSLP1B06M2QES

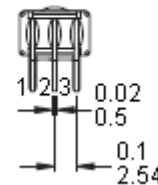
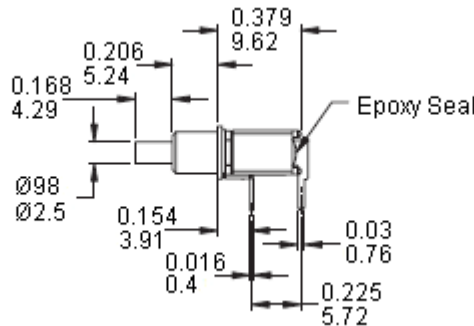


Dimensions : Inches (Millimetres)

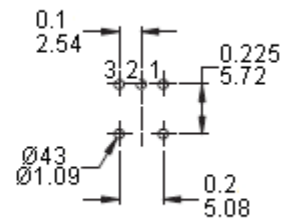
SPDT



MC8MSLP1B06M6RES

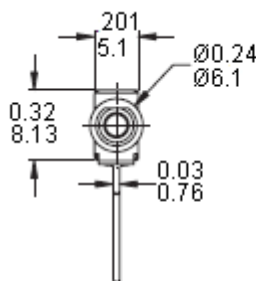


PC Mounting

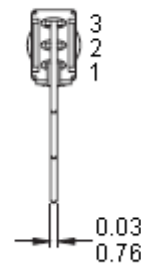
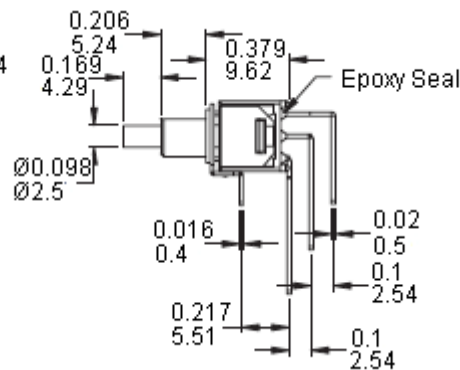


Dimensions : Inches (Millimetres)

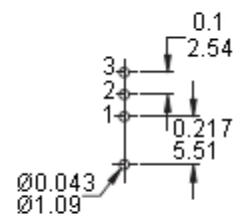
SPDT



MC8MSLP1B06M7QES



PC Mounting



Dimensions : Inches (Millimetres)

Pushbutton Switches

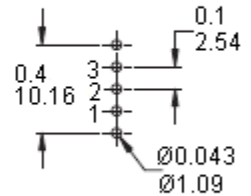
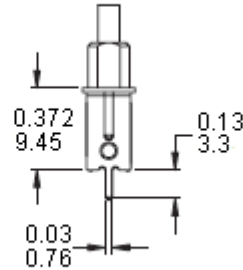
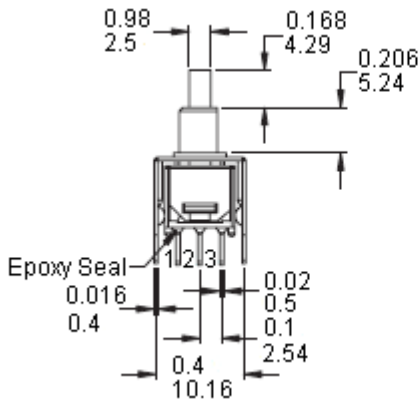
Sub-Miniature



SPDT

MC8MSLP1B06VS2QES

PC Mounting



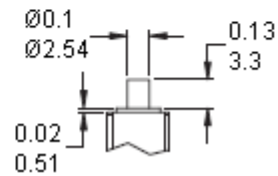
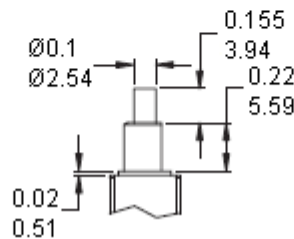
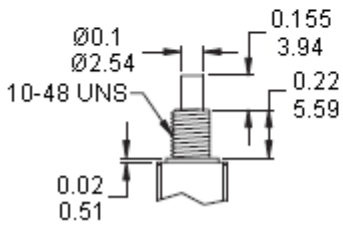
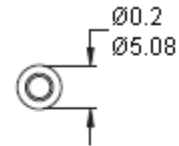
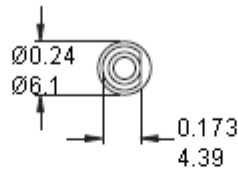
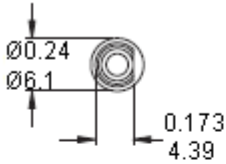
Dimensions : Inches (Millimetres)

Bushing Options

B05 THD

B06 NON-THD

B10

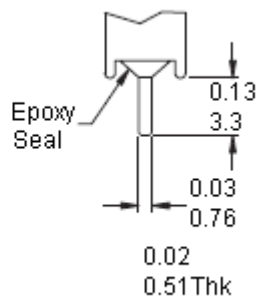
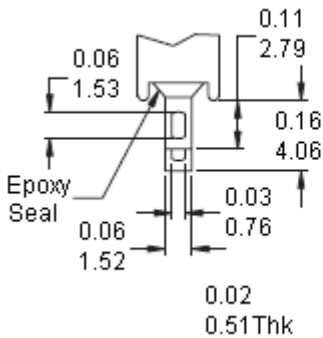


Dimensions : Inches (Millimetres)

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



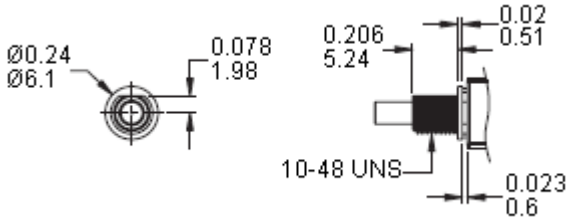
Pushbutton Switches



Sub-Miniature

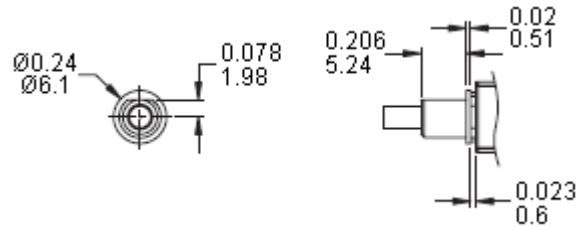
Bushing Options

B05 THD



Dimensions : Inches (Millimetres)

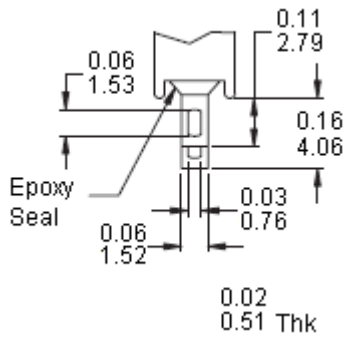
B06 NON-THD



Dimensions : Inches (Millimetres)

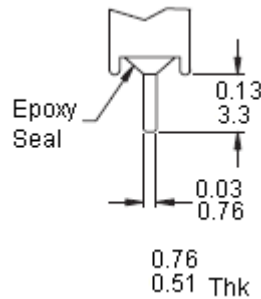
Termination Options

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 120 V 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 1.6mm in thickness)

Soldering : Vapour phase



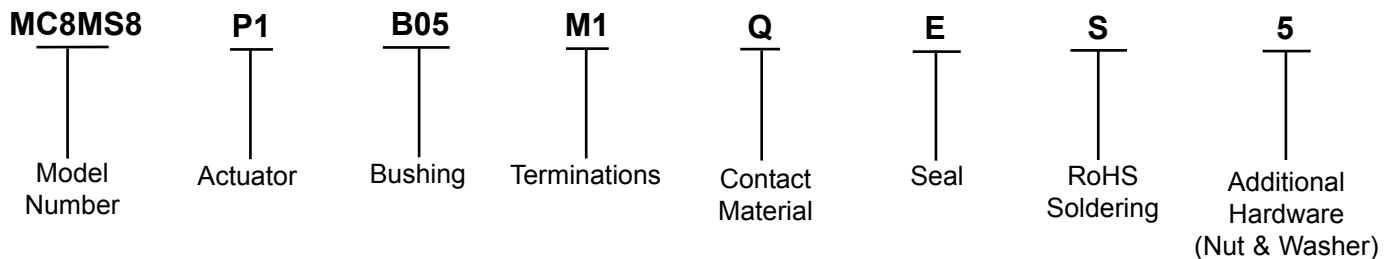
Pushbutton Switches

Sub-Miniature

Part Number Table

Description	Part Number
Switch, SPST, Off-MOM, Solder	MC8MS9P1B05M1QE
Switch, SPDT, On-MOM, Solder	MC8MS8P1B05M1QES
Switch, DPST, Off-MOM, PCB	MC8MD9P1B10M2RES
Switch, SPST, Off-MOM, Right / Angle	MC8MS9P1B06M6RES
Switch, DPST, 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, SPDT, 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** : MC8MS8 = On-Mom, MC8MS9 = Off-Mom and MC8MSL = 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

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2011.