Sub-Miniature







Specifications:

Contact rating : Dependent upon content material Mechanical life : 50,000 make-and-break cycles Maximum contact resistance : $20 \text{ m}\Omega$ initial at 2-4 V dc

100 mA for both silver and gold plated contacts

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

Dielectric strength : 1,000 V 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 Poles		Position 1	Position 2	Position 1	Position 2
			4	A	
SP	8BS8	ON	MOM	2-1 /2 (Comm) NC 1 • 3 NO	2-3 NC 1 • \(^2\)(Comm) 3 NO
	8BS9	OFF	MOM	Open	1-3 1 1 1 1 3
DP	8MD9	OFF	МОМ	Open	1-3, 4-6

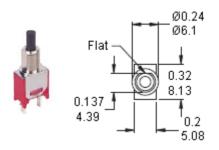
MOM = Momentary



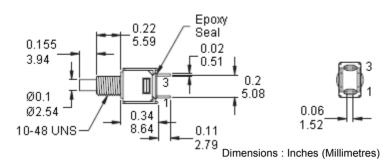
Sub-Miniature



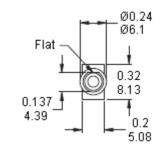
Pole Options SPDT



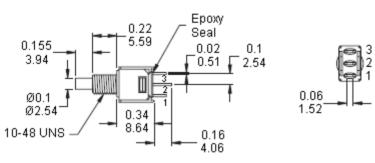
8MS9P1B05M1QE



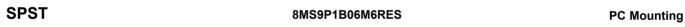
SPDT

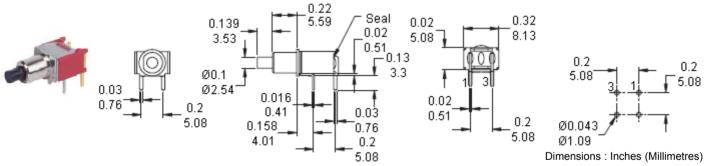


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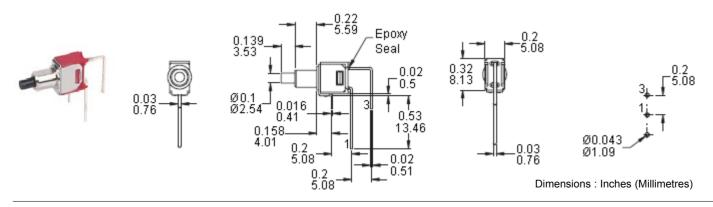


Dimensions: Inches (Millimetres)





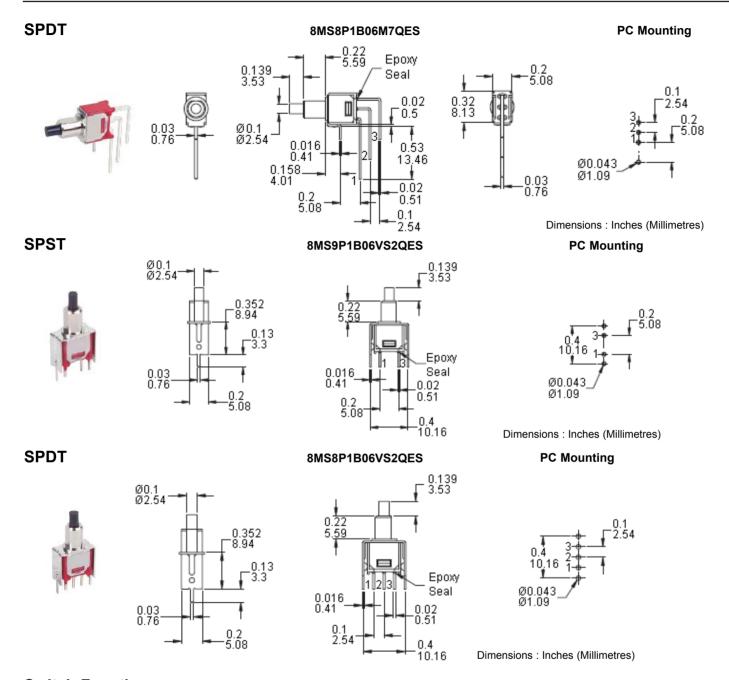
SPST 8MS9P1B06M7QES PC Mounting





Sub-Miniature





Switch Function

Number of Poles	Model Number	Switch Function		Connected Terminals / Schematic	
		Position 1	Position 2	Position 1	Position 2
		1	1	1	A
SP	8MSL	ON	ON	2-1 /2 (Comm) NC 1 • 3 NO	2-3 NC 1 * \frac{2(Comm)}{3 NO}

MOM = Momentary



Ø0.24 Ø6.1

0.201

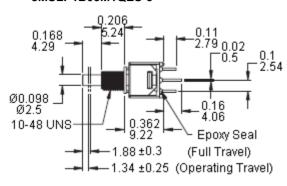
Sub-Miniature

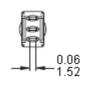


Pole Options SPDT



8MSLP1B05M1QES-5

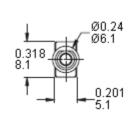




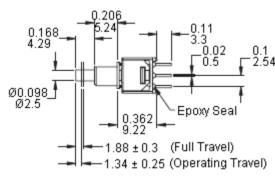
Dimensions: Inches (Millimetres)

SPDT





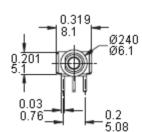
8MSLP1B06M2QES



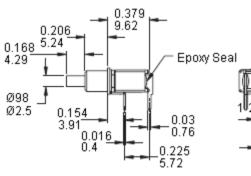


Dimensions: Inches (Millimetres)

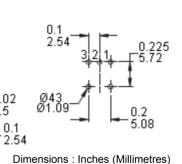
SPDT



8MSLP1B06M6RES







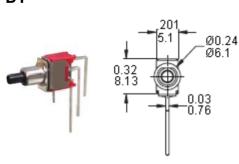
0.02

0.03

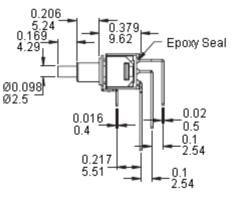
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0.5

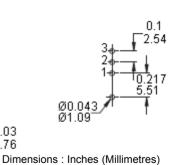
SPDT



8MSLP1B06M7QES



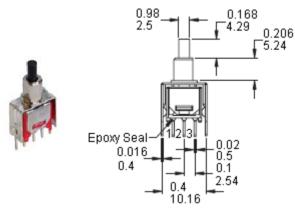
PC Mounting

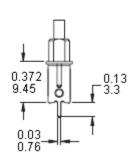


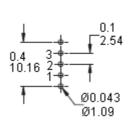
Sub-Miniature



SPDT 8MSLP1B06VS2QES **PC Mounting**



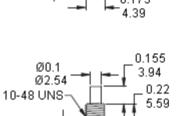


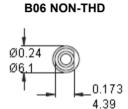


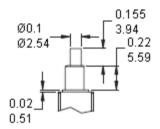
Dimensions: Inches (Millimetres)

Bushing Options

B05 THD 0.173 4.39

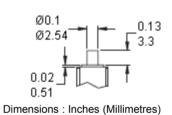






B10

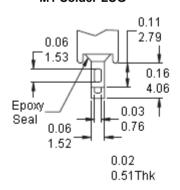




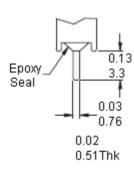
Termination Options

0.51

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

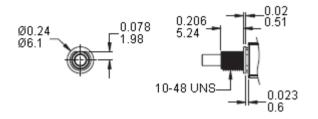


Sub-Miniature



Bushing Options





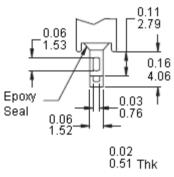
Dimensions: Inches (Millimetres)

806 NON-THD 0.024 0.078 1.98 0.206 5.24 0.023 0.023

Dimensions: Inches (Millimetres)

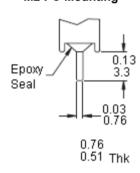
Termination Options

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 1.6 mm in thickness)

Soldering: Vapour phase



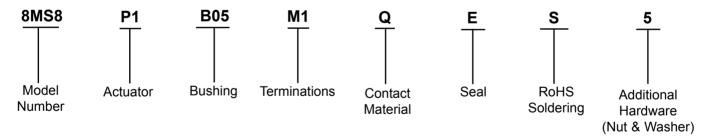
Sub-Miniature



Part Number Table

Description	Part Number
Switch, SPDT, Off-MOM, Solder	8MS9P1B05M1QE
Switch, SPDT, On-MOM, Solder	8MS8P1B05M1QES
Switch, DPDT, Off-MOM, PCB	8MD9P1B10M2RES
Switch, SPST, Off-MOM, Right / Angle	8MS9P1B06M6RES
Switch, DPDT, Off-MOM, Right / Angle	8MD9P1B10M6RES
Switch, SPST, Off-MOM, Vert Right / Angle	8MS9P1B06M7QES
Switch, SPDT, On-MOM, Vert Right / Angle	8MS8P1B06M7QES
Switch, SPST, Off-MOM, V-Bracket	8MS9P1B06VS2QES
Switch, SPDT, On-MOM, V-Bracket	8MS8P1B06VS2QES
Switch, SPDT, Off-MOM, Solder	8MS9AP122M1QES
Switch, SPDT, On-On, Solder	8MSLP1B05M1QES-5
Switch, SPDT, On-On, PCB	8MSLP1B06M2QES
Switch, SPDT, On-On, Right / Angle	8MSLP1B06M6RES
Switch, SPDT, On-On, Vert Right / Angle	8MSLP1B06M7QES
Switch, SPDT, On-On, V-Bracket	8MSLP1B06VS2QES

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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