

## Specifications:

## Contact rating

Mechanical life
Maximum contact resistance
Minimum insulation resistance
Dielectric strength
Operating temperature

## Materials:

Case
: Diallyl phthalate (DAP)
Plunger
: Thermoplastic Polyester-black
Bushing
: Brass, nickel plated
Housing
: Stainless steel
Contact
: Silver or gold plated
Terminal
Terminal support
: Dependent upon content material
: 50,000 make-and-break cycles
: $20 \mathrm{~m} \Omega$ initial at $2-4 \mathrm{~V}$ dc
100 mA for both silver and gold plated contacts
: $1,000 \mathrm{M} \Omega$
: $1,000 \mathrm{~V}$ rms at sea level
: $-30^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$

## Switch Function

| Number of Poles | Model Number | Switch Function |  | Connected Terminals / Schematic |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Position 1 | Position 2 | Position 1 | Position 2 |
|  |  |  |  |  | 1 |
| SP | 8BS8 | ON | MOM | $2-1 \quad \text { NC } 1<3 \text { NO }$ | 2-3 NC 1 * ${ }^{2(\text { Comm) }}$ |
|  | 8BS9 | OFF | MOM | Open |  |
| DP | 8MD9 | OFF | MOM | Open |  |

## MOM = Momentary

[^0]
# Pushbutton Switches <br> Sub-Miniature 

## Pole Options

## SPDT



## 8MS9P1B05M1QE



## SPDT



Dimensions : Inches (Millimetres)

## SPST

8MS9P1B06M6RES
PC Mounting
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 |
|  |  |  | $1$ | $8$ | 1 |
| SP | 8MSL | ON | ON | $2-1 \quad \text { NC } 1-3 \text { NO }$ | $2-3 \quad \text { NC } 1 * \sum_{3 \mathrm{NO}}^{2(\text { Comm })}$ |

MOM = Momentary

# Pushbutton Switches <br> Sub-Miniature 

Pole Options

## SPDT <br> 



SPDT


SPDT


8MSLP1B05M1QES-5


8MSLP1B06M2QES


8MSLP1B06M6RES
PC Mounting


Dimensions : Inches (Millimetres)

SPDT


8MSLP1B06M7QES


Dimensions : Inches (Millimetres)

## SPDT



PC Mounting


Dimensions : Inches (Millimetres)

## Bushing Options

B05 THD



## Termination Options



Other Termination Options

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

M2 PC Mounting


Dimensions: Inches (Millimetres)

## Sub-Miniature

Bushing Options

B05 THD


Dimensions: Inches (Millimetres)

B06 NON-THD


Dimensions : Inches (Millimetres)

## Termination Options



## 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 | $\mathrm{Q}=$ Silver | 3 Amperes with resistant load at 120 V ac or 28 V dc <br> 1 Ampere with resistant load at 250 V ac |
| R | Gold | $\mathrm{R}=$ Gold | 0.4 Volt - Amperes (VA) maximum at 20 V maximum <br> (ac or dc) |

## Soldering Process:

Manual soldering : Use soldering iron of 30 watts, controlled at $350^{\circ} \mathrm{C}$ approximately 5 seconds while applying solder
Wave soldering
: Recommended soldering temperature : $260 \pm 5^{\circ} \mathrm{C}$
Duration of solder immersion : Maximum 5 seconds (PCB is 1.6 mm in thickness)
Soldering : Vapour phase

# Pushbutton Switches <br> 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:



[^0]:    www.element14.com
    www.farnell.com
    www.newark.com

