# Pushbutton Switches <br> Sub-Miniature 

## Specifications

Contact Rating
Mechanical Life
Max. Contact Resistance
Min. Insulation Resistance
Dielectric Strength
Operating Temperature

## Materials:

Case : Diallyl phthalate (DAP)
Plunger : Thermoplastic Polyester-black
Bushing
: Brass, nickel plated
Housing
: Stainless steel
Contact
Terminal
: Silver or gold plated
: Brass, silver plated
: Brass, tin plated

## Switch Function

| Number of Poles | Model Numbers | Switch Function |  | Connected Terminals/Schematic |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Position 1 | Position 2 | Position 1 | Position 2 |
|  |  |  | 1 | $\sqrt{1}$ | 1 |
| SP | 8BS8 | ON | MOM | $\text { 2-1 } \quad \mathrm{NCH}=-3 \text { (Comm) }$ | 2-3 NC 1 * ${ }_{\text {2 }}^{\text {2(Comm) }}$ |
|  | 8BS9 | OFF | MOM | Open | 1-3 ${ }_{1}{ }^{\frac{1}{\text { ¢ }} \text { 3 }}$ |
| DP | 8MD9 | OFF | MOM | Open |  |

MOM = Momentary

## Pole Options

SPDT


Dimensions : Inches (Millimetres)

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SPDT


8MS8P1B05M1QES


SPST


SPST
8MS9P1B06M7QES
PC Mounting


SPDT
8MS8P1B06M7QES
PC Mounting


Dimensions: Inches (Millimetres)

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# Pushbutton Switches <br> Sub-Miniature 

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SPST


SPDT


8MS9P1B06VS2QES


8MS8P1B06VS2QES


PC Mounting


PC Mounting


Dimensions : Inches (Millimetres)

## Switch Function

| Number of Poles | Model <br> Numbers | Switch Function |  | Connected Terminals/Schematic |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Position 1 | Position 2 | Position 1 |  | Position 2 |  |
|  |  | $\theta$ | 1 |  |  |  | $b$ |
| SP | 8MSL | ON | ON | 2-1 | $\text { NC } 14.3 \text { NO }$ | 2-3 | $\mathrm{NC}_{1}+\mathrm{I}_{3 \mathrm{NO}}^{2(\mathrm{Comm})}$ |

MOM $=$ Momentary

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# Pushbutton Switches <br> Sub-Miniature 

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Pole Options


SPDT


SPDT


8MSLP1B06M6RES


PC Mounting
8MSLP1B06M7QES


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# Pushbutton Switches Sub-Miniature 

SPDT


8MSLP1B06VS2QES
PC Mounting


## Bushing Options



## Termination Options

M1 Solder LUG


Other Termination Options
M6 = Right Angle PC Mount
M7 = Right Angle PC Mount
VS2 $=$ Vertical Bracket PC Mount

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## Bushing Options

B05 THD


B06 NON-THD


Termination Options
M1 Solder LUG
M2 PC Mounting

0.02
0.51 Thk


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 28V DC <br> 1 Ampere with resistant load at 250V AC |
| $R$ | Gold | $R=$ Gold | 0.4 Volt - Amperes (VA) maximum at 20V 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

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## Pushbutton Switches 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



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