## DIL Switches <br> MCDS, MCDP, MCDA Series



## DS Series



General Tolerance : $\pm 0.2 \mathrm{~mm}$
Dimensions: Millimetres (Inches)

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## DA Series



General Tolerance : $\pm 0.2 \mathrm{~mm}$
Dimensions : Millimetres (Inches)

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## DIL Switches

## MCDS, MCDP, MCDA Series

## DP Series



Dimensions: Millimetres (Inches)

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## MCDS, MCDP, MCDA Series

## DS Series



General Tolerance : $\pm 0.1 \mathrm{~mm}$
Dimensions: Millimetres


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Dimensions : Millimetres

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## DA Series



Dimensions: Millimetres

## Specifications:

## Mechanical

Mechanical Life
Maximum Operation Force

Stroke
Operation Temperature
Storage Temperature

## Electrical

Electrical Life
Non-Switching Rating
Switching Rating
Maximum Contact Resistance
Minimum Insulation Resistance (at 500 V dc)
Dielectric Strength
Circuit
: 2,000 operations per switch
: 400 gf (DP series)
$1,000 \mathrm{gf}$ (DS and DA series)
: 2 mm
: $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$
: $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
: 2,000 operations per switch 24 V dc, 25 mA
: $100 \mathrm{~mA}, 50 \mathrm{~V}$ dc
: $25 \mathrm{~mA}, 24 \mathrm{~V}$ dc
: $50 \mathrm{~m} \Omega$ at initial
: $100 \mathrm{M} \Omega$
: 500 V ac per minute
: SPST

## DIL Switches

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## Materials

Base
: PBT thermoplastic
Colour : Black
Cover
: PBT thermoplastic
Colour : Red
Actuator
: PBT high thermoplastic
Colour : White
Contact
: Phosphor bronze with gold plating over nickel
Top Seal
Potting Material
: Polyester film
: Epoxy

## Soldering Process:

Keep all switch contacts in their "OFF" position for all operations

## Wave Soldering

Recommended temperature at $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$ maximum 5 seconds for through hole type

## Hand Soldering

Use a soldering iron of 30 watts, controlled at $350^{\circ} \mathrm{C}$ approximately maximum 5 seconds
Make sure switch is in "OFF" position during soldering process, or it will decrease the operating force and meanwhile increase the contact resistance
Do not wash the switch body except top tape sealed type, which suitable for spray cleaning method from top of the switch

## Specification Table

| Number of <br> Positions | Dimension <br> $\mathbf{A}$ | Dimension <br> $\mathbf{B}$ | Part Number |
| :---: | :---: | :---: | :---: |
| 3 | $8.98(0.354)$ | $5.08(0.2)$ | MCDS03 |
| 5 | $14.06(0.554)$ | $10.16(0.4)$ | MCDS05 |
| 7 | $19.14(0.754)$ | $15.24(0.6)$ | MCDS07 |
| 9 | $24.22(0.954)$ | $20.32(0.8)$ | MCDS09 |
| 2 | $6.44(0.254)$ | $2.54(0.1)$ | MCDA02 |
| 10 | $26.76(1.054)$ | $22.86(0.9)$ | MCDA10 |
| 12 | $31.84(1.254)$ | $27.94(1.1)$ | MCDA12 |
| 2 | $6.64(0.261)$ | $2.54(0.1)$ | MCDP02 |
| 10 | $26.96(1.061)$ | $22.86(0.9)$ | MCDP10 |
| 12 | $32.04(1.261)$ | $27.94(1.1)$ | MCDP12 |

Dimensions : Millimetres (Inches)

## Schematic (Typical)



2, 3, 5, 7, 9, 10,12, Positions Available

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## Part Number Explanation:

MC $\prod_{\substack{\text { Switch }}}^{\substack{\text { DA }}} \prod_{\substack{\text { Key and } \\ \text { Actuator }}}^{02} \prod_{\substack{\text { Number of } \\ \text { Position }}} \prod_{\substack{\text { Colour of } \\ \text { Cover }}} \prod_{\text {Position }}$

Switch $\quad$| $:$ | DS $=$ Slide type dip switch |
| ---: | :--- |
| DA | $=$ Right angle type dip switch |
| DP | $=$ Piano type dip switch |

Key and Actuator

| : DS $\square$ | $=$ Raised Actuator |
| ---: | :--- |
| DA $\square$ | $=$ Raised Actuator |
| DP $\square=$ Short Key |  |

Number of Positions
$: 02=2,03=3,05=5,07=7,09=9,10=10$, and $12=12$ Positions
Colour of Cover
Position
Seal
:= Red= Push down on

Switch
: $\mathrm{V}=$ Lead free solderable
Package Style
$: \square$ = Tube
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