

| Sser multicomp | PART no. ${ }^{\text {M }}$ MCD,DA-V | REVISIONS |  |  | огam | DAIE | CHECK0 | Date | Appavo | Date |
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|  |  | EEN \# | rev | DESCRIPTITON |  |  |  |  |  |  |
|  |  | - | A | RELEASED | Venktat | 07730 | Suresh | 071308 | 6.0 | 211308 |

## Schematic (Typical)


2, 3, 4, 5, 6, 7, 8, 9, 10, 12 Positions Available

## Specifications Table

| Number of <br> Positions | A | B | Part Number |
| :---: | :---: | :---: | :---: |
| 3 | $8.98(0.354)$ | $5.08(0.200)$ | MCDA03 |
| 5 | $14.06(0.554)$ | $10.16(0.400)$ | MCDA05 |
| 7 | $19.14(0.754)$ | $15.24(0.600)$ | MCDA07 |
| 9 | $24.22(0.954)$ | $20.32(0.800)$ | MCDA009 |
| Dimensions: Millimetres (Inches) |  |  |  |



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|  |  | Venkat | 07/03/08 |  |  |  |  |  |  |  |
|  |  | CHECKED BY: | DATE: | $\begin{gathered} \text { SIZE } \\ \mathrm{A} \end{gathered}$ | DWG NO. | M10000813 | ELECTRONIC FILE DS,DP,DA-V_DWG |  |  | REV |
|  |  | Suresh | 07/03/08 |  |  |  |  |  |  | A |
|  |  | APPROVED BY: | DATE: | SCALE: NTS |  | U.O.M.: mm (Inches) |  |  |  |  |
|  |  | G.Cook | 21/03/08 |  |  | SHEET: 2 OF | 6 |




Schematic (Typical)

2, 3, 4, 5, 6, 7, 8, 9, 10, 12 Positions Available

## Specifications Table

| Number of <br> Positions | A | B | Part Number |
| :---: | :---: | :---: | :---: |
| 3 | $9.18(0.361)$ | $5.08(0.200)$ | MCDP03 |
| 5 | $14.26(0.561)$ | $10.16(0.400)$ | MCDP05 |
| 7 | $19.34(0.761)$ | $15.24(0.600)$ | MCDP07 |
| 9 | $24.42(0.961)$ | $20.32(0.800)$ | MCDP09 |
| Dimensions: Millimetres (Inches) |  |  |  |



Dimensions: Millimetres (Inches)


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|  |  | ECN \# | REv | DESCRIPTION |  |  |  |  |  |  |
|  |  | - | A | RELEASED | Venkat | 0773/38 | Suresh | 077/38 | 6. 6 | 213/08 |
|  | MCDA/DP Series |  |  |  |  |  |  |  |  |  |

## Specifications:

Mechanical:
Mechanical life
: 2,000 operations per switch.
Maximum Operating force
400gf (MCDP series).
1,000gf (MCDA series).
2.0 mm .

Stroke
-20 to $+70^{\circ} \mathrm{C}$.
Operating temperature
-40 to $+85^{\circ} \mathrm{C}$.
Storage temperature
2,000 operations per switch 24 V dc, 25 mA .
$\begin{array}{ll}\text { Electrical life } & : 2,000 \text { operations } \\ \text { Non-switching rating } & : 100 \mathrm{~mA}, 50 \mathrm{~V} \text { dc. }\end{array}$
Switching rating $: 25 \mathrm{~mA}, 24 \mathrm{~V}$ dc.
Maximum contact resistance
$50 \mathrm{~m} \Omega$ at intial
Minimum insulation resistance
$100 \mathrm{M} \Omega$ at 500 V dc.
Dielectric strength
: 500V ac/1 minute
Circuit
: SPST.
Materials:
Base : UL 94V-0 PBT thermoplastic.
Colour: Black.
Cover : UL 94V-0 PBT thermoplastic.
Actuator : UL 94V-0 PBT high thermoplastic.
Colour: White.
Contact : Phospor bronze with gold plating over nickel.
Top seal : Polyester film.
Potting material
: 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 s/w.

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|  |  | Suresh | 07/03/08 |  |  |  |  |  |  |  |
|  |  | APPROVED BY: | DATE: | SCALE: NTS |  | U.O.M.: mm (Inches) | SHEET: |  |  |  |
|  |  | G.Cook | 21/03/08 |  |  | 5 |  | OF | 6 |


| multicomp | PART No.MCDA/DP Series | REVISIONS |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ECN \# | REV | DESCRIPTION | DRAWN | DATE | CHECKD | DATE | APPRVD | DATE |
|  |  | - | A | RELEASED | Venkat | 07/3/08 | Suresh | 07/3/08 | G. C | 21/3/08 |
|  | MCDAVDP Series |  |  |  |  |  |  |  |  |  |

Part Number Explanation


Switch Type
: DA = Right Angle Type Dip Switch.
DP = Piano Type Dip Switch.
Actuator Type $\quad \square=$ Raised Actuator for MCDA series, Short Key for MCDP series.

- $03=3$ Positions.
$05=5$ Positions.
$07=7$ Positions.
$09=9$ Positions.
http://www.farnell.com
http://www.newark.com
http://www.cpc.co.uk

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|  |  | APPROVED BY: | DATE: | SCALE: NTS |  | U.O.M.: mm (Inches) | SHEET: 6 OF |  |  |
|  |  | G.Cook | 21/03/08 |  |  | 6 |  |  |

