



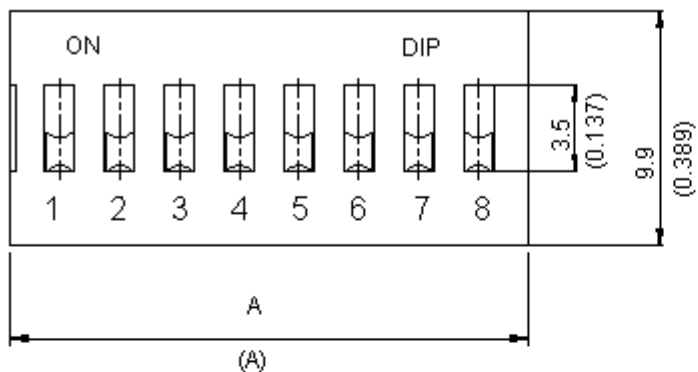
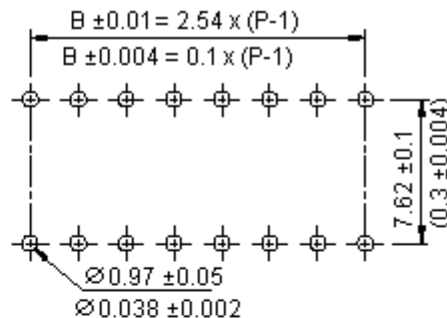
PART NO.

MCD Series

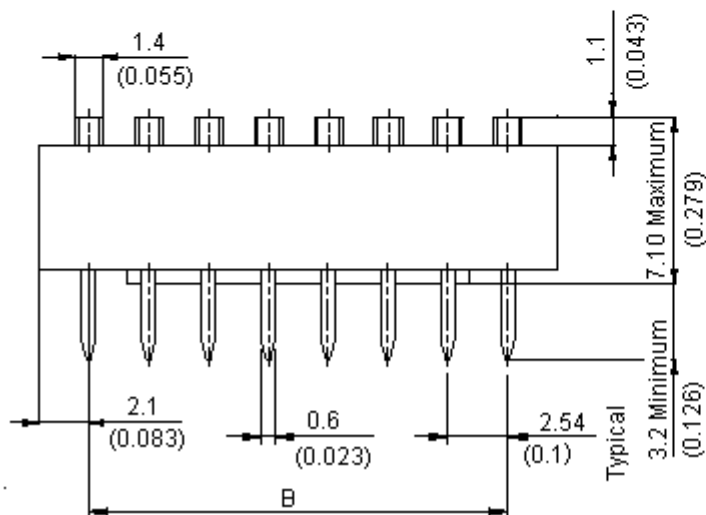
REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Ashok	18/01/12	Jagan	18/01/12	Farnell	01/02/12

DS



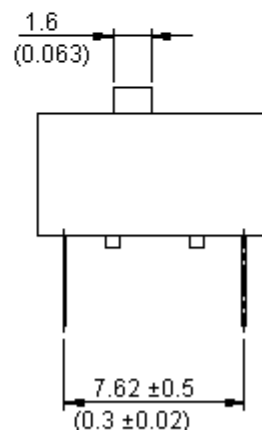
PCB Layout



Schematic (Typical)



(2, 4, 6, 8, 10 and 12 Pos Avails)



Dimensions : Millimetres (Inches)

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Ashok

DATE:

18/01/12

CHECKED BY:

Jagan

DATE:

18/01/12

APPROVED BY:

DATE:

01/02/12

DRAWING TITLE:

Switch - DS, DP, DA SeriesSIZE
A

DWG NO.

M10001964

ELECTRONIC FILE

73742_DWG

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 5



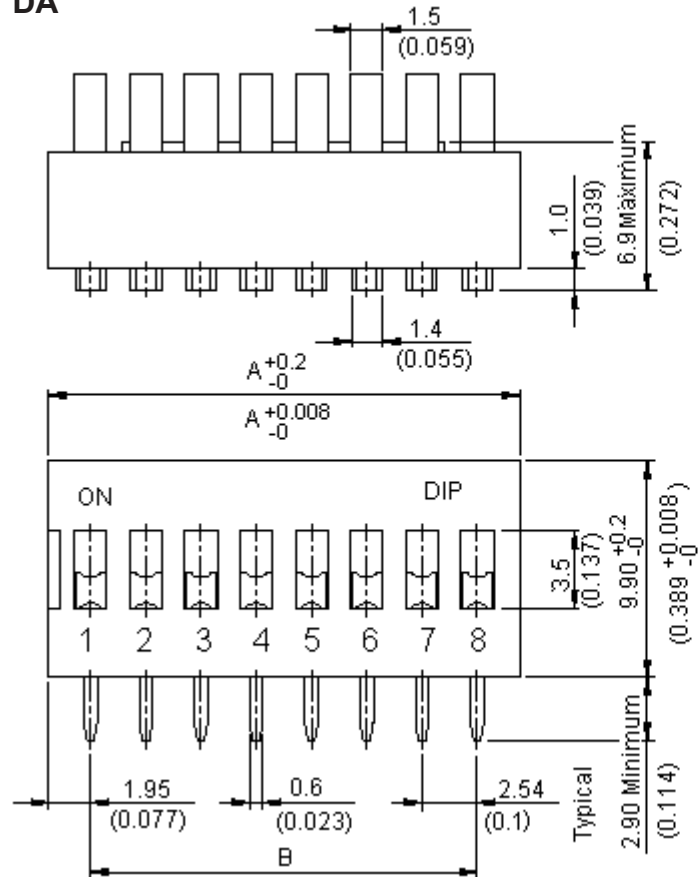
PART NO.

MCD Series

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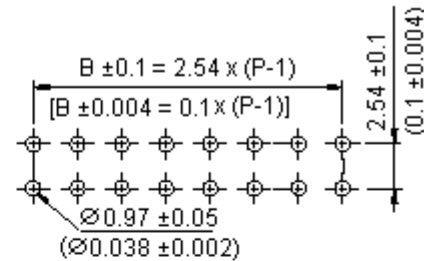
DA



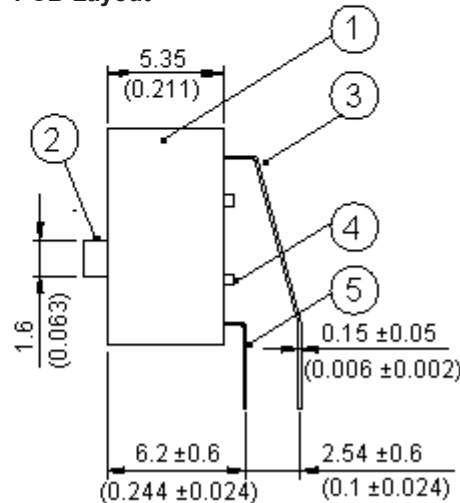
Schematic (Typical)



(4, 6 and 8 Pos Avails)



PCB Layout



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Ashok

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Veena

DATE:

18/01/12

APPROVED BY:

01/02/12

DRAWING TITLE:

Switch - DS, DP, DA SeriesSIZE
A

DWG NO.

M10001964ELECTRONIC FILE
73742_DWGREV
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SCALE: NTS

U.O.M.: mm

SHEET: 2 OF 5



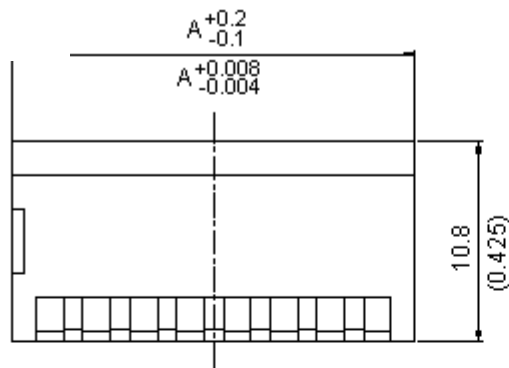
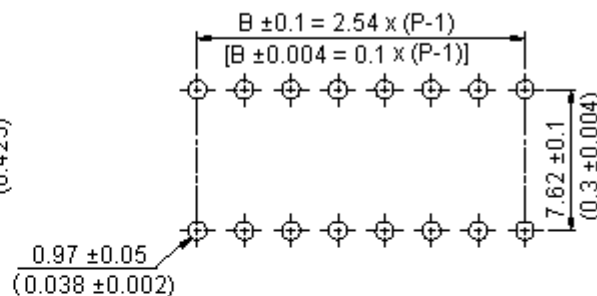
PART NO.

MCD Series

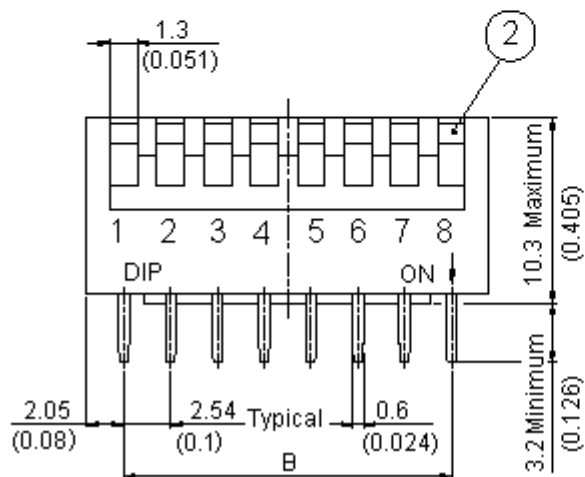
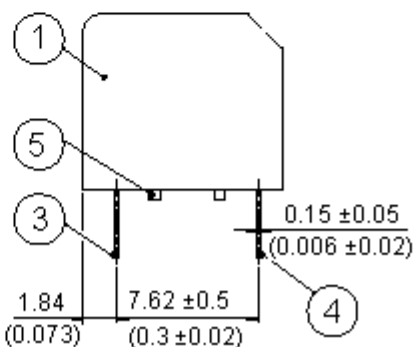
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-	A	RELEASED	Ashok	18/01/12	Jagan	18/01/12	Farnell	01/02/12

DP



PCB Layout



DP Series

Schematic (Typical)



(4, 6 and 8 Pos Avails)

Dimensions : Millimetres (Inches)

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DRAWING TITLE:

Switch - DS, DP, DA SeriesSIZE
A

DWG NO.

M10001964ELECTRONIC FILE
73742_DWGREV
A

SCALE: NTS

U.O.M.: mm

SHEET: 3 OF 5



PART NO.

MCD Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Ashok	18/01/12	Jagan	18/01/12	Farnell	01/02/12

Specifications:**Mechanical:**

Mechanical life : 2,000 operations per switch
Maximum operation force : 400 gf (DP Series)
: 1,000gf maximum (DS and DA Series)
Stroke : 2 mm
Operation temperature : -20°C to +70°C
Storage temperature : -40°C to +85°C

Electrical:

Electrical life : 2,000 operations per switch 24 V dc, 25 mA
Non-switching rating : 100 mA, 50 V dc
Switching rating : 25 mA, 24 V dc
Maximum contact resistance : 50 mΩ at initial
Insulation resistance : 100 MΩ
Dielectric strength : 500 V ac for one minute
Circuit : SPST

Materials:

Base : PBT thermoplastic
Colour : Black
Cover : PBT thermoplastic
Colour : Red, black and blue
Actuators : PBT high thermoplastic
Colour : White
Contact : Phosphor 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°F (260°C) maximum 5 seconds for through hole type

Hand soldering : Use a soldering iron of 30 watts, controlled at 350°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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APPROVED BY:**DATE:**

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DRAWING TITLE:**Switch - DS, DP, DA Series****SIZE
A**

DWG NO.

M10001964ELECTRONIC FILE
73742_DWGREV
A

SCALE: NTS

U.O.M.: mm

SHEET: 4 OF 5



PART NO.

MCD Series

REVISIONS

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Specification Table

Number of Positions	A	B	Part Number
4	11.52 (0.454)	7.62 (0.300)	MCDA04
6	16.60 (0.654)	12.70 (0.500)	MCDA06
8	21.68 (0.854)	17.78 (0.700)	MCDA08
4	11.52 (0.454)	7.62 (0.300)	MCDS04
6	16.60 (0.654)	12.70 (0.500)	MCDS06
8	21.68 (0.854)	17.78 (0.700)	MCDS08
2	6.44 (0.254)	2.54 (0.100)	MCDS02
10	26.76 (1.054)	22.86 (0.900)	MCDS10
12	31.84 (1.254)	27.94 (1.100)	MCDS12
4	11.72 (0.461)	7.62 (0.300)	MCDP04
6	16.80 (0.661)	12.70 (0.500)	MCDP06
8	21.88 (0.861)	17.78 (0.700)	MCDP08

Dimensions : Millimetres (Inches)

Part Number Explanation:

MCDA04

Type Dip Switch

Number of Positions

Type Dip Switch : DA = Right Angle, DP = Piano and DS = Slide Type Dip Switch
Number of Positions : 04 = 4, 06 = 6, 08 = 8, 02 = 2, 10 = 10 and 12 = 12 Positions

www.element14.com
www.farnell.com
www.newark.com

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DRAWING TITLE:

Switch - DS, DP, DA SeriesSIZE
A

DWG NO.

M10001964ELECTRONIC FILE
73742_DWGREV
A

SCALE: NTS

U.O.M.: mm

SHEET: 5 OF 5