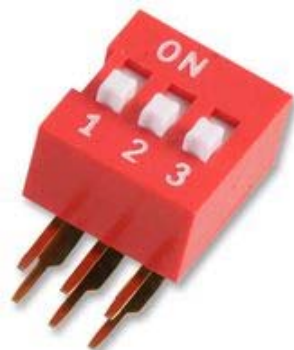


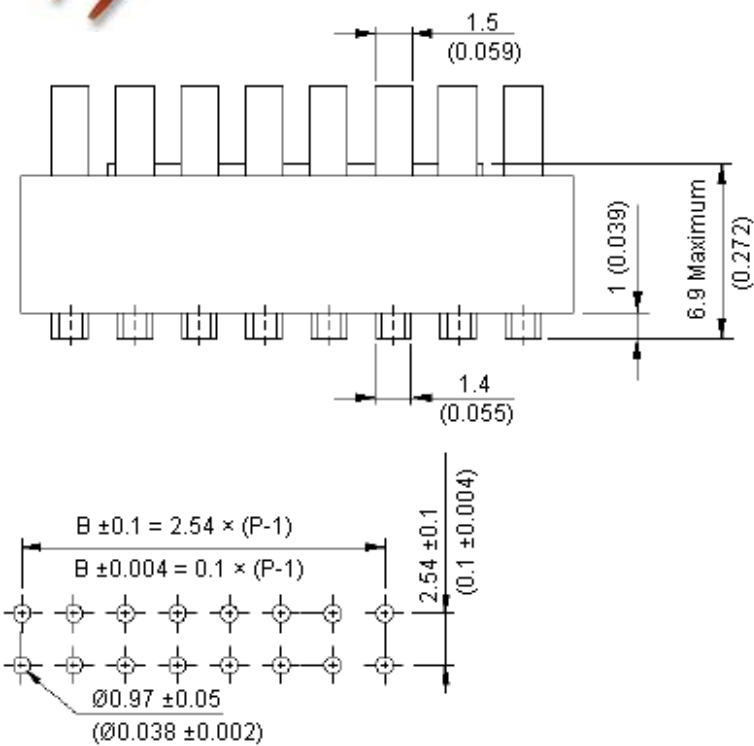
Dual In Line Switches



Right Angle and Piano Types



MCDA



PCB Layout

Schematic (Typical)

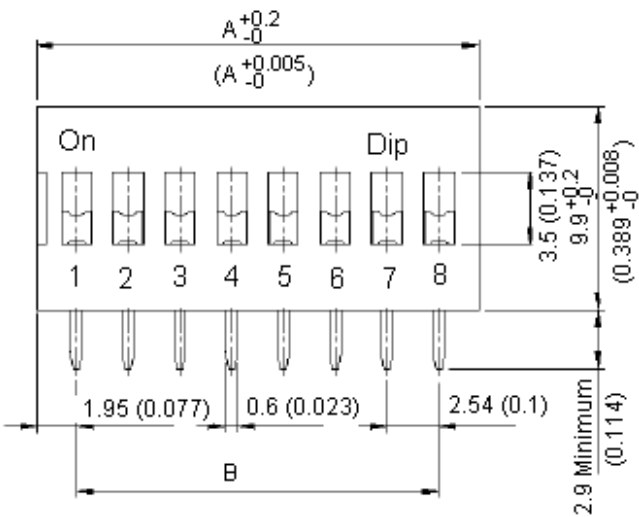


2, 3, 4, 5, 6, 7, 8, 9, 10, 12 Positions Available

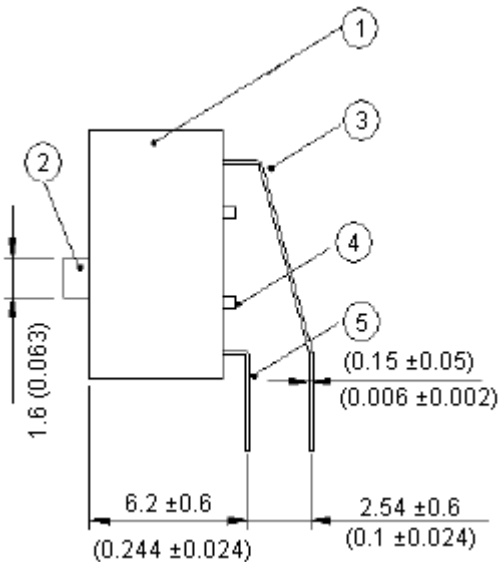
Specification Table

Number of Positions	A	B	Part Number
3	8.98 (0.354)	5.08 (0.2)	MCDA03
5	14.06 (0.554)	10.16 (0.4)	MCDA05
7	19.14 (0.754)	15.24 (0.6)	MCDA07
9	24.22 (0.954)	20.32 (0.8)	MCDA09

Dimensions : Millimetres (Inches)



Dimensions : Millimetres (Inches)



Dimensions : Millimetres (Inches)



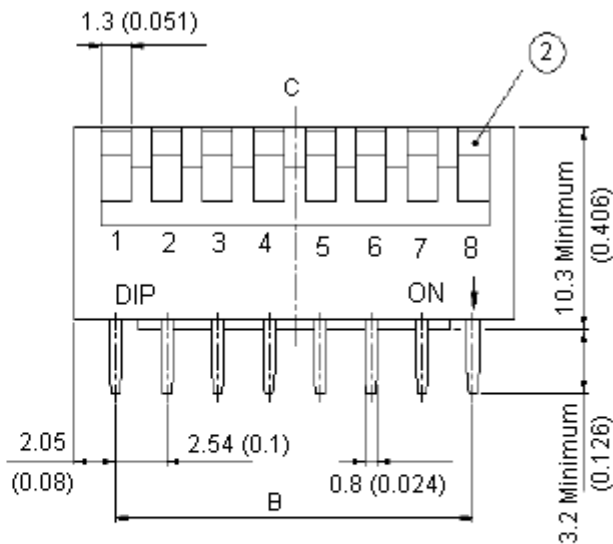
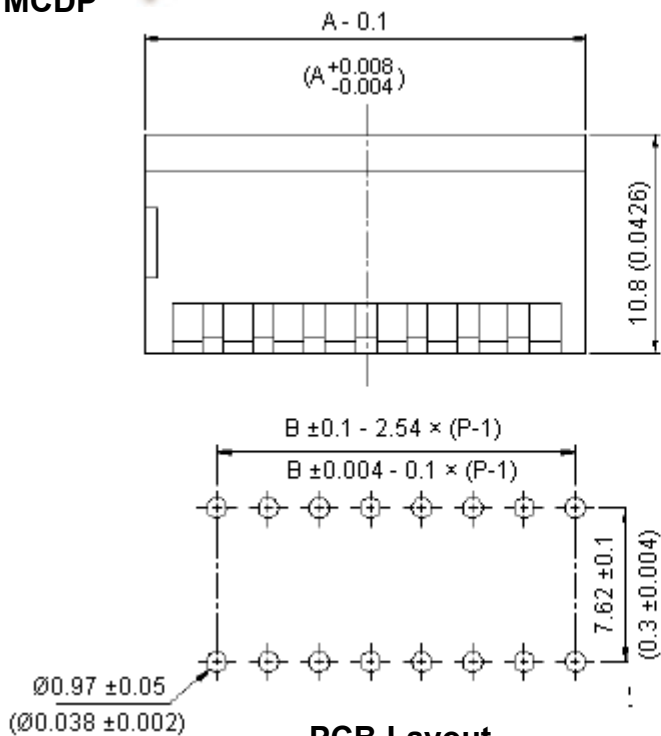
Dual In Line Switches



Right Angle and Piano Types

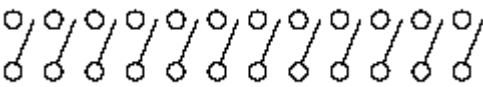


MCDP



Dimensions : Millimetres (Inches)

Schematic (Typical)

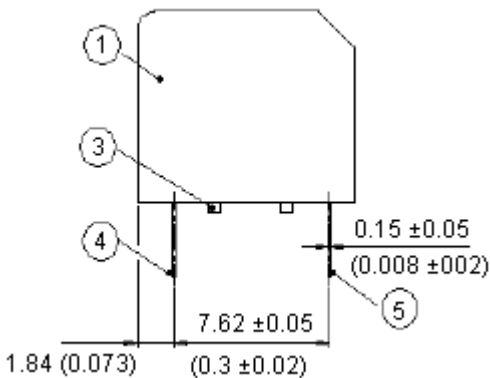


2, 3, 4, 5, 6, 7, 8, 9, 10, 12 Positions Available

Specification Table

Number of Positions	A	B	Part Number
3	9.18 (0.361)	5.08 (0.2)	MCDP03
5	14.26 (0.561)	10.16 (0.4)	MCDP05
7	19.34 (0.761)	15.24 (0.6)	MCDP07
9	24.42 (0.961)	20.32 (0.8)	MCDP09

Dimensions : Millimetres (Inches)



Dimensions : Millimetres (Inches)



Dual In Line Switches



Right Angle and Piano Types

Specifications:

Mechanical:

Mechanical Life	: 2,000 operations per switch
Maximum Operating Force	: 400 gf (MCDP series) and 1,000 gf (MCDA series)
Stroke	: 2 mm
Operating Temperature	: -20 to +70°C
Storage Temperature	: -40 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
Minimum Insulation Resistance	: 100 MΩ at 500 V dc
Dielectric Strength	: 500 V ac / 1 minute
Circuit	: SPST

Materials:

Base	: UL 94V-0 PBT thermoplastic Colour : Black
Cover	: UL 94V-0 PBT thermoplastic Colour : Red, black and blue
Actuator	: UL 94V-0 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

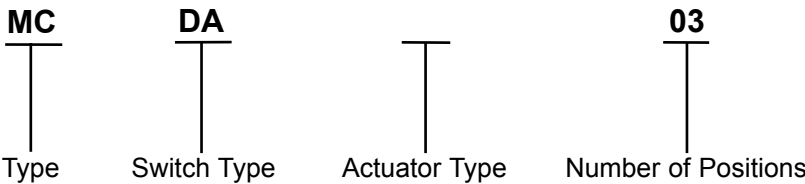
Wave soldering : Recommended temperature at 500°F (260°C) maximum 5 seconds for through hole type

Hand soldering : Use a soldering iron of 30 W, controlled at 350°C approximately maximum 5 s

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

Part Number Explanation:



Switch Type : DA = Right Angle Type Dip Switch
DP = Piano Type Dip Switch

Actuator Type : = Raised Actuator for MCDA series,
= Short Key for MCDP series

Number of Positions : 03 = 3 Positions
05 = 5 Positions
07 = 7 Positions
09 = 9 Positions

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