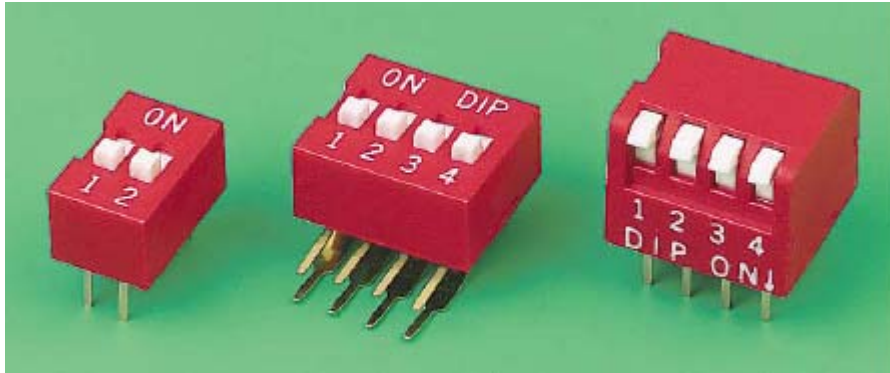
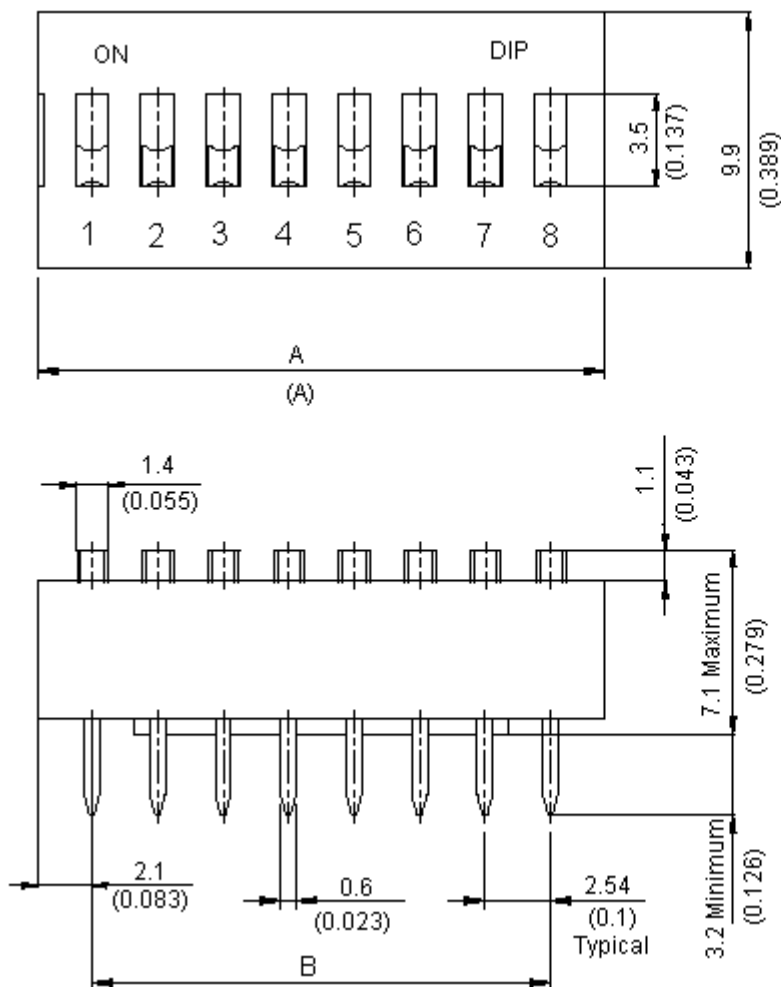


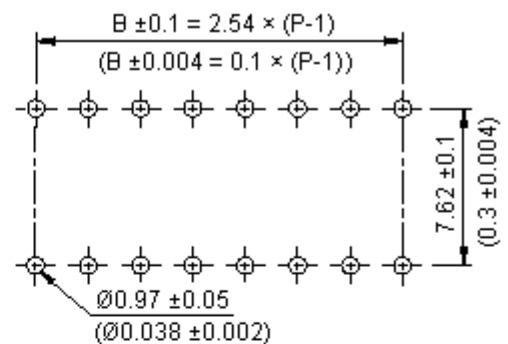
MCDS, MCDP, MCDA Series



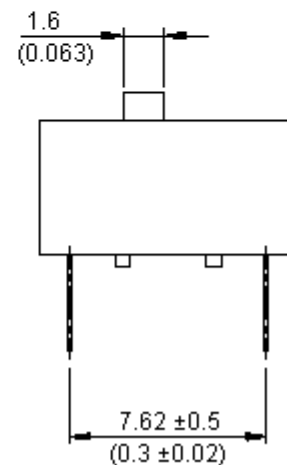
DS Series



General Tolerance : ± 0.2 mm



PCB Layout



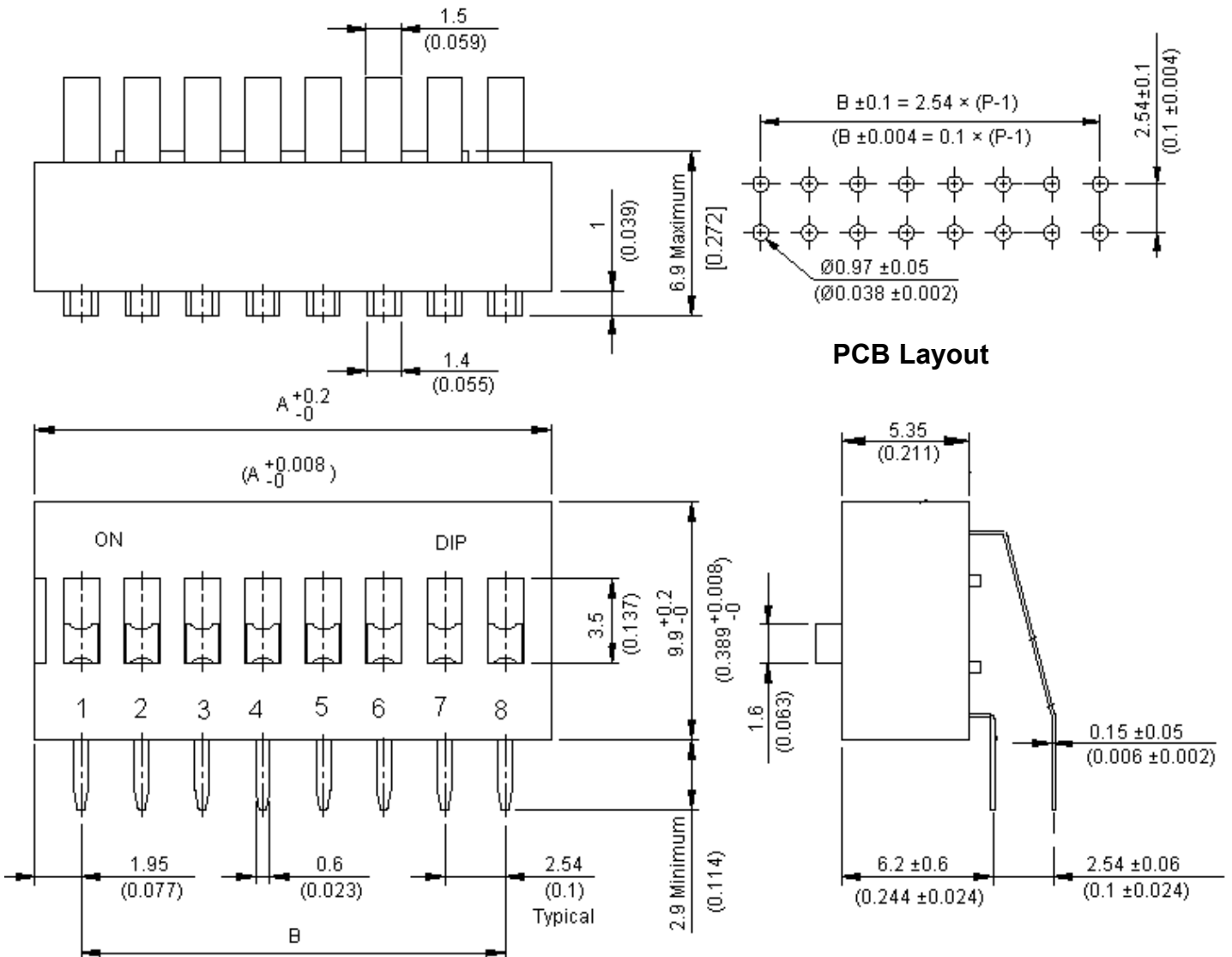
Dimensions : Millimetres (Inches)

DIL Switches

MCDS, MCDP, MCDA Series



DA Series



General Tolerance : ±0.2 mm

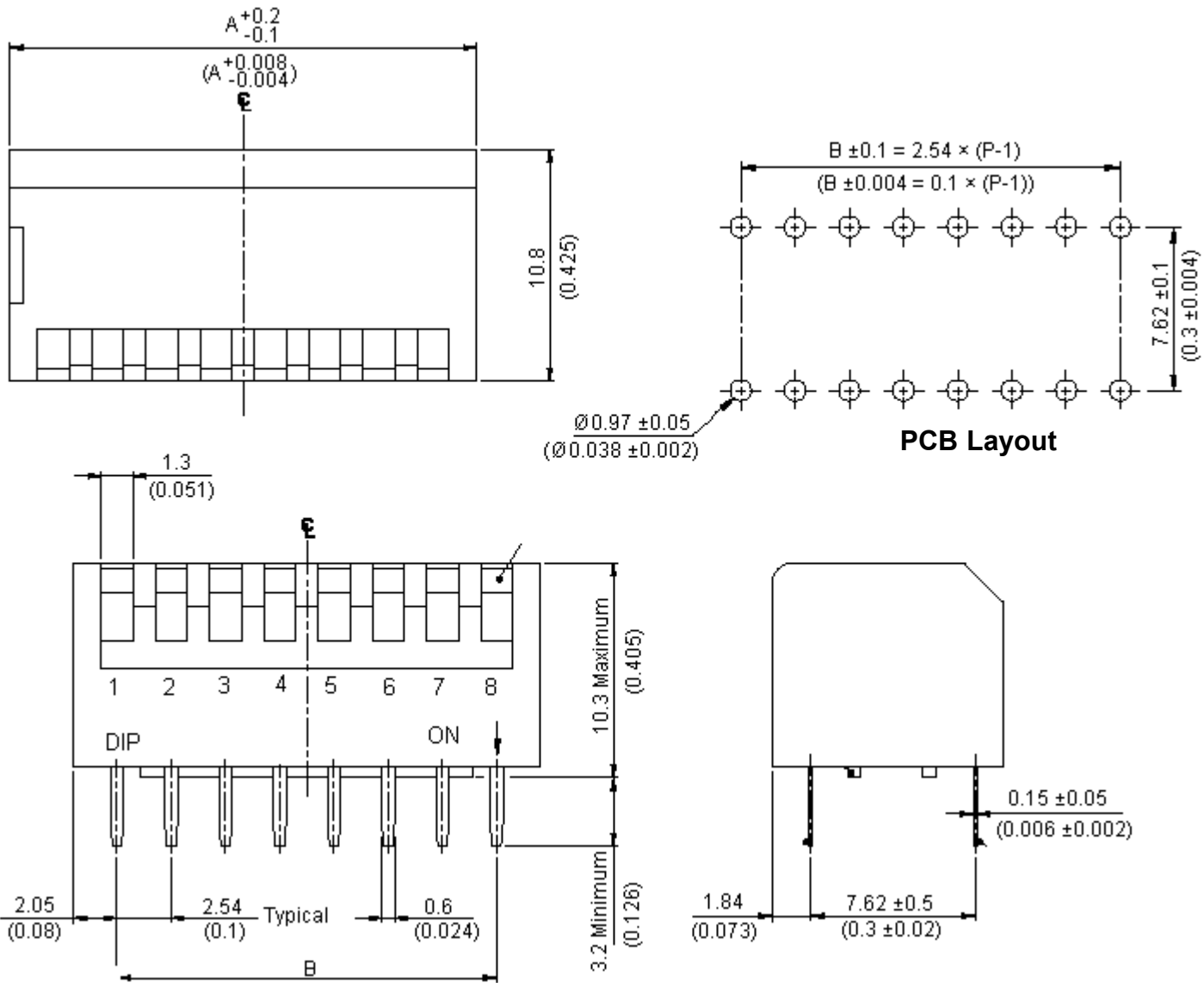
Dimensions : Millimetres (Inches)

DIL Switches



MCDS, MCDP, MCDA Series

DP Series



General Tolerance : ± 0.2 mm

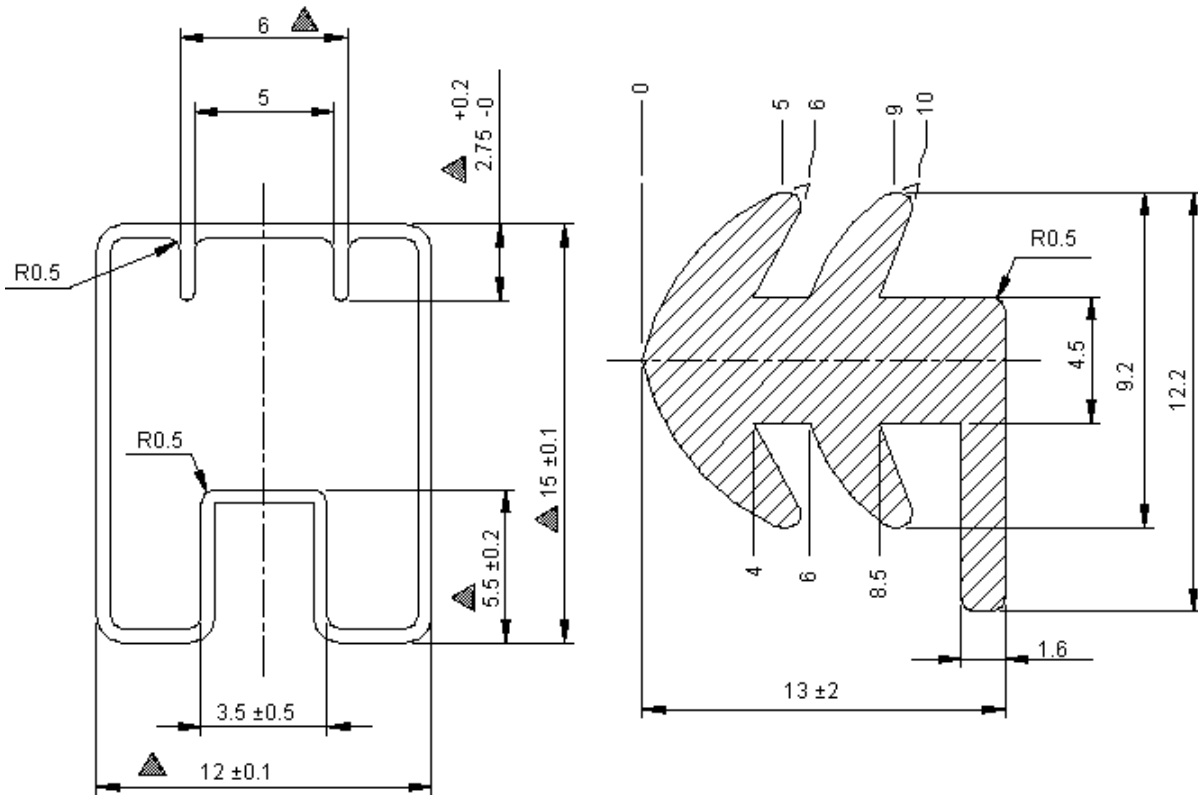
Dimensions : Millimetres (Inches)



DIL Switches

MCDS, MCDP, MCDA Series

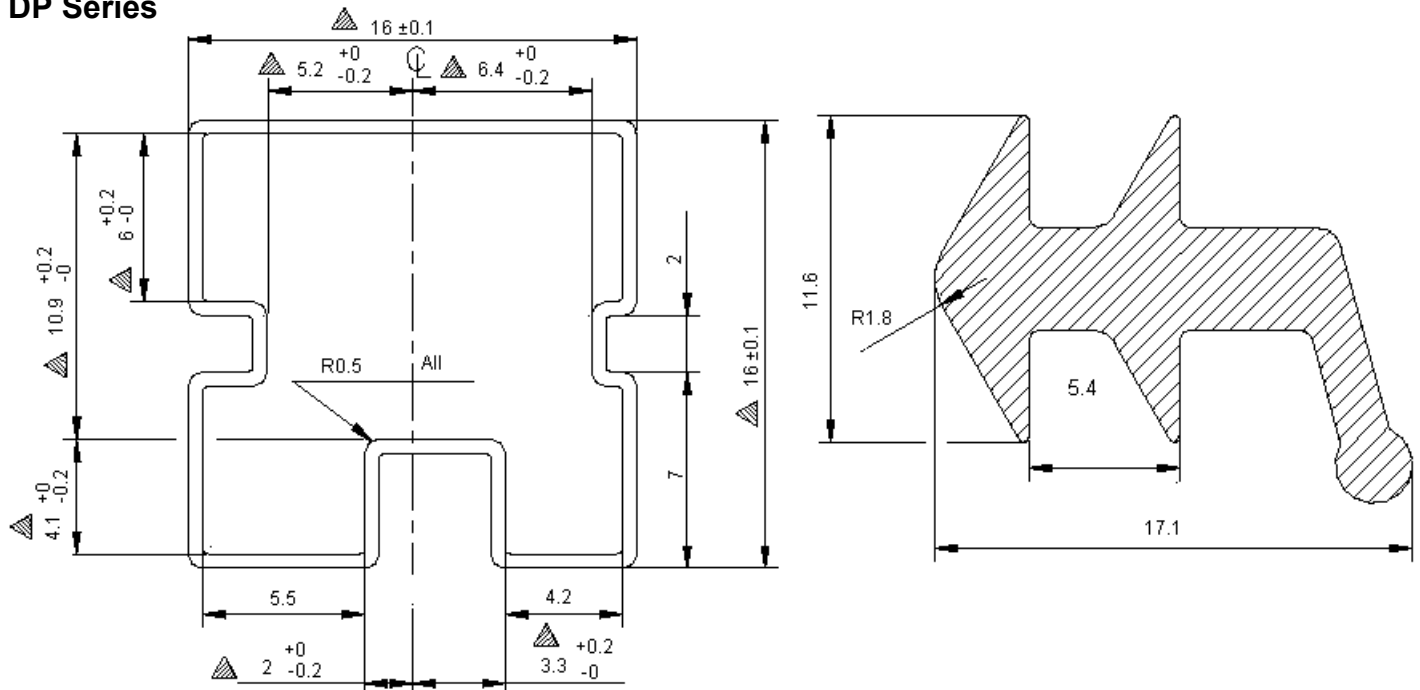
DS Series



General Tolerance : ± 0.1 mm

Dimensions : Millimetres

DP Series



General Tolerance : ± 0.1 mm

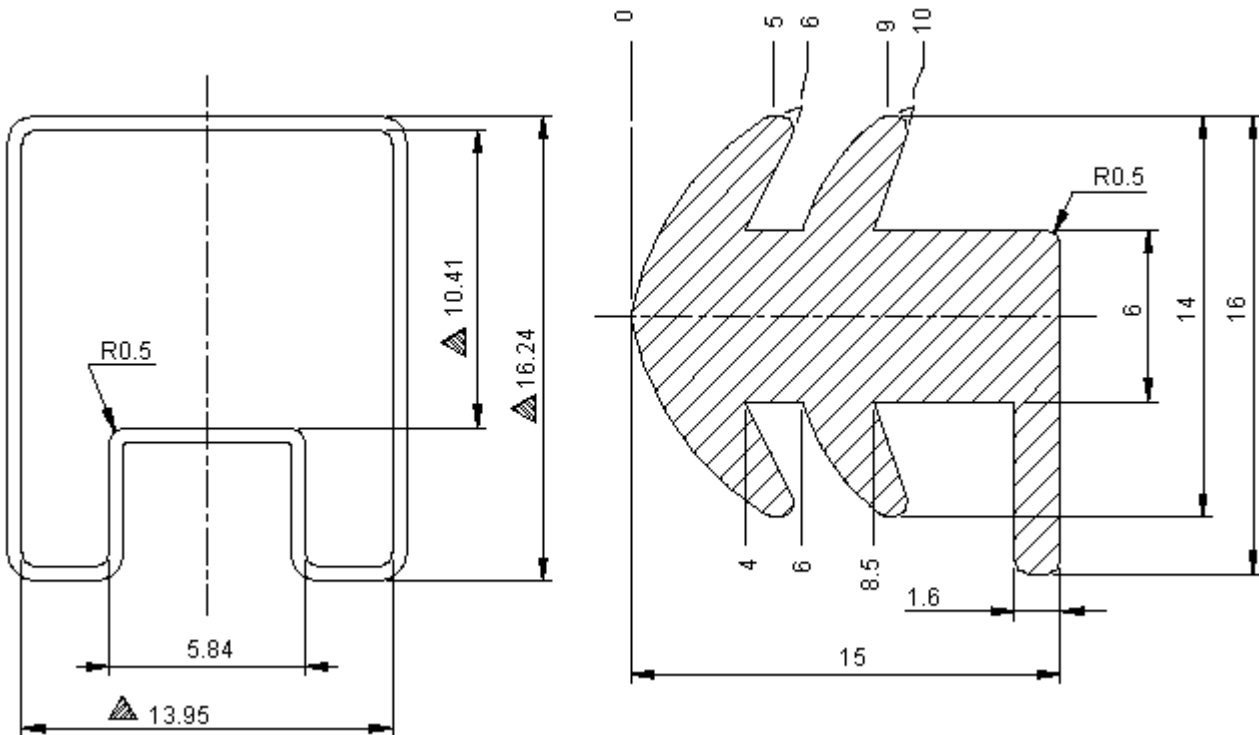
Dimensions : Millimetres

DIL Switches



MCDS, MCDP, MCDA Series

DA Series



General Tolerance : ± 0.1 mm

Dimensions : Millimetres

Specifications:

Mechanical

Mechanical Life	: 2,000 operations per switch
Maximum Operation Force	: 400 gf (DP series) 1,000 gf (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 m Ω at initial
Minimum Insulation Resistance (at 500 V dc)	: 100 M Ω
Dielectric Strength	: 500 V ac per minute
Circuit	: SPST

DIL Switches



MCDS, MCDP, MCDA Series

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	: 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

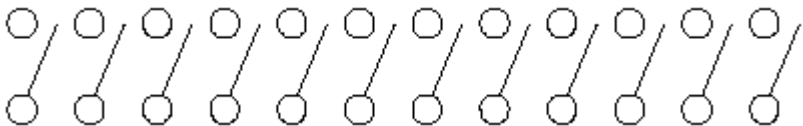
Do not wash the switch body except top tape sealed type, which suitable for spray cleaning method from top of the switch

Specification Table

Number of Positions	Dimension A	Dimension 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)

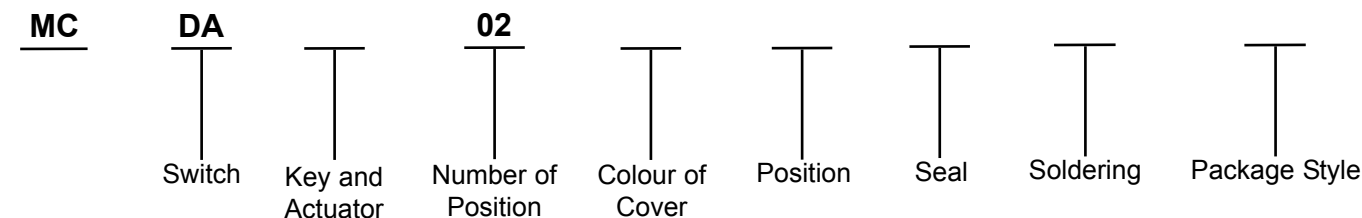
Schematic (Typical)



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

MCDS, MCDP, MCDA Series

Part Number Explanation:



Switch : DS = Slide type dip switch
DA = Right angle type dip switch
DP = Piano type dip switch

Key and Actuator : DS  = Raised Actuator
DA  = Raised Actuator
DP  = Short Key

Number of Positions : 02 = 2, 03 = 3, 05 = 5, 07 = 7, 09 = 9, 10 = 10, and 12 = 12 Positions

Colour of Cover : ☐ = Red

Position : = Push down on

Seal : = Regular

Switch : V = Lead free solderable

Package Style : ☐ = Tube

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