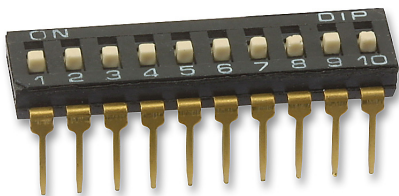
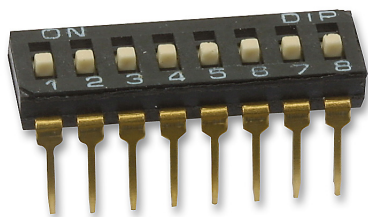
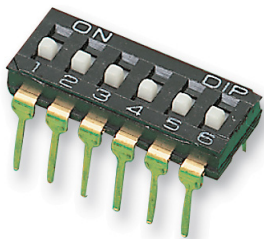
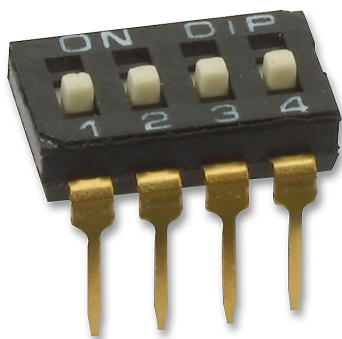
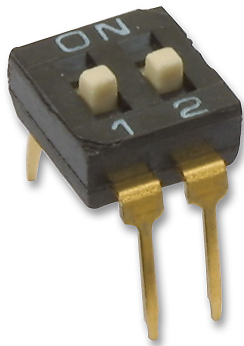


# DIL Switches

## Low Profile



### NDI



### Features:

- Single pole single throw DIL switches.
- Splay terminals allow for automatic insertion by IC insertion machine.
- Insert moulding of terminals and ultrasonic welding improve flux proofness and enable flux washing in whole by top tape sealing.
- NDI series (raised actuator) available for different purposes.
- Double contacts offers high reliability.
- Vapour phase solderable, IR-reflow solderable.
- Terminal plating by gold give excellent results when soldering.

Terminal plating : Tin/lead available too.  
Lead Spacing : 7.62 x 2.54.

### Materials:

Base and Cover : High temperature thermoplastic.  
Colour : Black.

Actuator : Nylon thermoplastic.  
Colour : White.

Contact : Gold plated over nickel.

Terminal : Gold.

Tape plating : Kapton.

Life expectancy : 2000 ops.

It is recommended to solder switches in the 'off' factory supplied position.

### Specifications:

#### Mechanical:

Mechanical life : 2000 operations per switch.

Operation force : 1000gf maximum.

Storage temperature : -40°C to +85°C.

Vibration test : MIL-STD-202F Method 201A.

Frequency : 10 - 55 - 10Hz/1minute.

Directions : X, Y, Z three mutually perpendicular directions.

Time : 2 hours each direction.

High reliability.

Shock test : MIL-STD-202F Method 213B.

Condition A.

Gravity : 50G (peak value), 11m seconds.

Direction and times : 6 sides and 3 times in each direction.

High reliability.

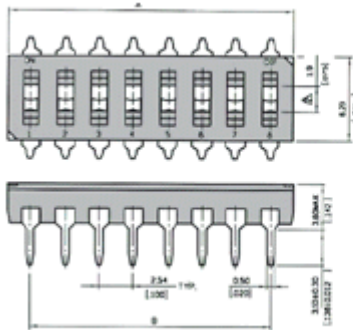


# DIL Switches

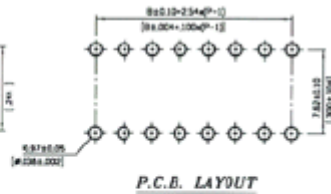
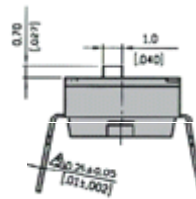
## Low Profile



### NDI



### NDI- S

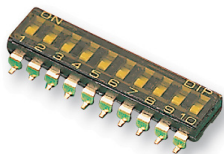
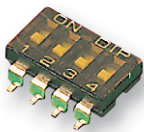


### Schematic (Typical)



02, 04, 06, 08 and 10 Position Available

### DMR



### Specifications:

#### Electrical:

Electrical life : 2000 operations minimum per switch 24Vdc, 25mA.

Non-switching rating : 100mA, 50Vdc.

Stroke : NDI Series : 1.0mm.  
DM(R) Series : 0.9mm.

Switching rating : 25mA 24Vdc.

Contact resistance : [a] 50mΩ maximum at initial.  
[b] 100mΩ maximum after life test.

Capacitance : 5pF maximum.

Operating temperature : -20°C to +70°C.

Insulation resistance : 100MR at 500V.

Dielectric Strength : 500Vac 1minute.

Contact rating : 25mA 24Vdc and 100mA 50Vdc non switching.

### Soldering and cleaning process:

#### For best results, please follow these recommendation:

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

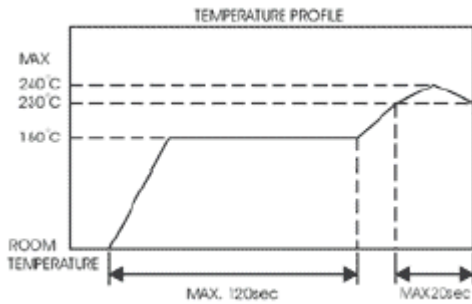
Wave soldering : Recommended solder temperature at 500°F (260°C) maximum, 5 seconds.  
For through hole type.

Hand soldering : Use a soldering iron of 30 watts, controlled at 608°F (320°C) approximately 2 seconds while applying solder.



# DIL Switches

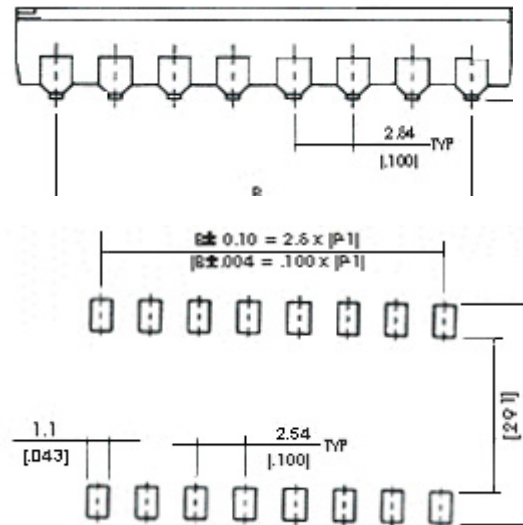
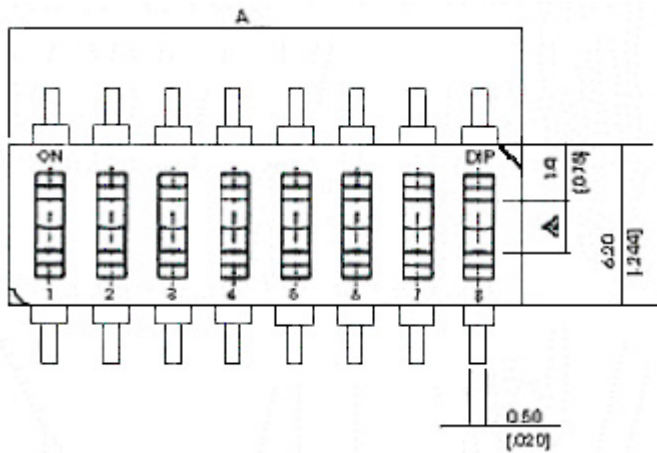
## Low Profile



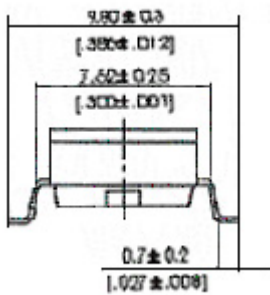
Reflow temperature profile.

Care should be exercised so that flux from the upper part of the printed circuit board does not adhere to the switch.

Do not clean the switch body except with top tape sealed type, which can only spray of cleaning method from top s/w.



### Terminal Type



### DMR SERIES

General Tolerance:  $\pm 0.2\text{mm}$  ( $\pm 0.008''$ )



# DIL Switches

## Low Profile



### Models For NDI

Number of ways	Dimension A	Dimension B	Part Number
02	6.02 (0.237)	2.54 (0.100)	MCNDI-02S
04	11.10 (0.437)	7.62 (0.300)	MCNDI-04S
06	16.18 (0.637)	12.70 (0.500)	MCNDI-06S
08	21.26 (0.837)	17.78 (0.700)	MCNDI-08S
10	26.34 (1.037)	22.86 (0.900)	MCNDI-10S

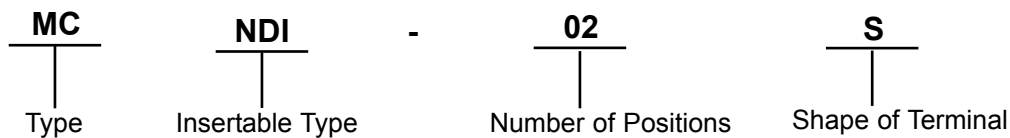
Dimensions : Millimetres (Inches)

### Models For DM(R)

Number of Ways	Dimension A	Dimension B	Part Number
2	6.02 (0.237)	2.54 (0.100)	MCDM(R)-02-T
4	11.10 (0.437)	7.62 (0.300)	MCDM(R)-04-T
6	16.18 (0.637)	12.70 (0.500)	MCDM(R)-06-T
8	21.26 (0.837)	17.78 (0.700)	MCDM(R)-08-T
10	26.34 (1.037)	22.86 (0.900)	MCDM(R)-10-T

Dimensions : Millimetres (Inches)

### Part Number Explanation:

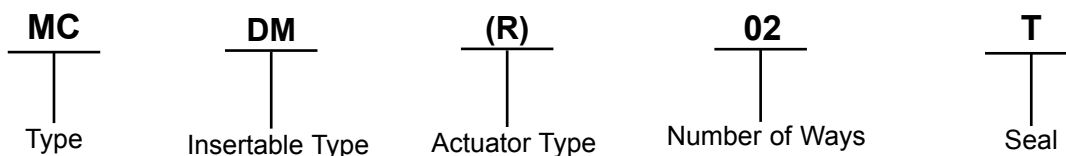


**Insertable Type** : NDI = Machine insertable Type DIP switch.

**Number of Positions** : 02, 04, 06, 08 and 10.

**Shape Of Terminal** : S = Splay Terminal.

### Part Number Explanation



**Insertable Type** : Surface Mounting Type DIP Switch.

**Actuator Type** : Recessed Acuator.

**Number of Ways** : 02, 04, 06, 08 and 10.

**Seal** : T = Top Tape Sealed.



# DIL Switches

## Low Profile



### Notes:

### International Sales Offices:



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