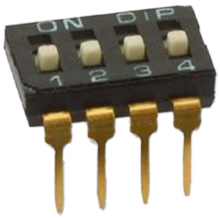
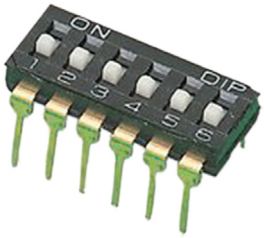
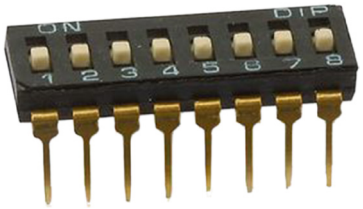
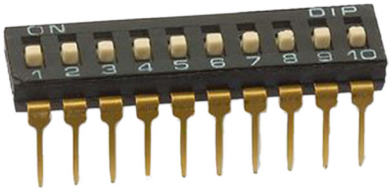
DIL Switches
Low Profile

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 × 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	: 2,000ops

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

Specifications:

Mechanical:

Mechanical Life	: 2,000 operations per switch
Operation Force	: 1,000gf 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

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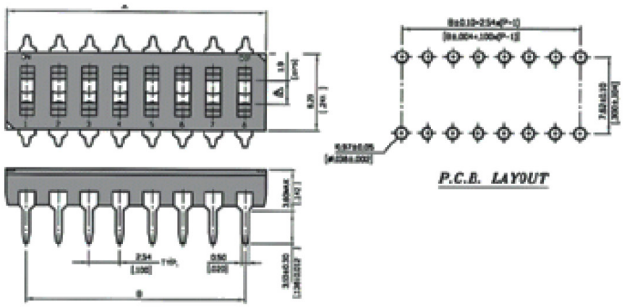
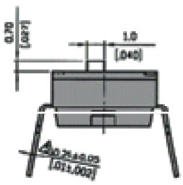
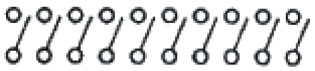
NDI



NDI- S

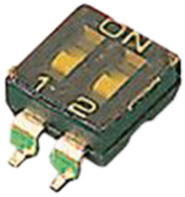


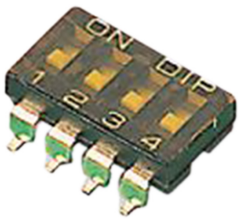
Schematic (Typical)

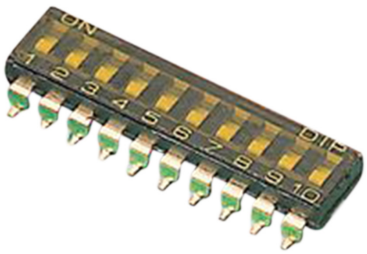


02, 04, 06, 08 and 10 Position Available

DMR







Specifications:

Electrical:

Electrical Life	: 2,000 operations minimum per switch 24V DC, 25mA
Non-Switching Rating	: 100mA, 50V DC
Stroke	: NDI Series : 1mm
DM(R) Series	: 0.9mm
Switching Rating	: 25mA 24V DC
Contact Resistance	: [a] 50mΩ maximum at initial [b] 100mΩ maximum after life test
Capacitance	: 5pF max.
Operating Temperature	: -20°C to +70°C
Insulation Resistance	: 100MR at 500V
Dielectric Strength	: 500V AC 1 minute
Contact Rating	: 25mA 24V DC and 100mA 50V DC non switching

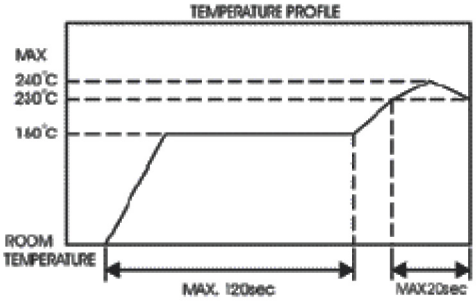
Soldering and cleaning process:

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.

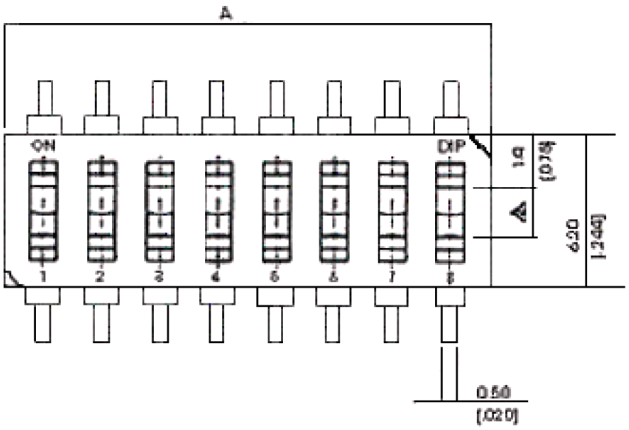
DIL Switches
Low Profile

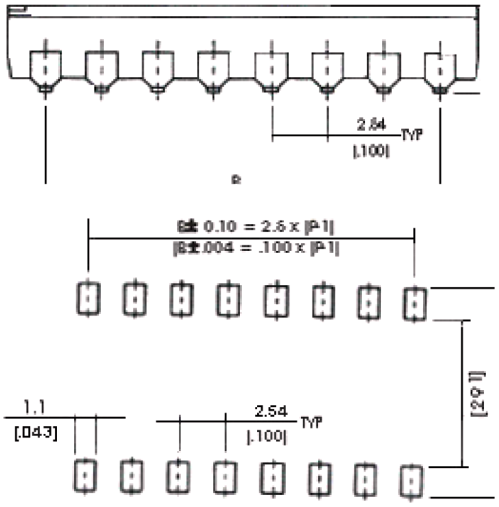


Reflow temperature profile.

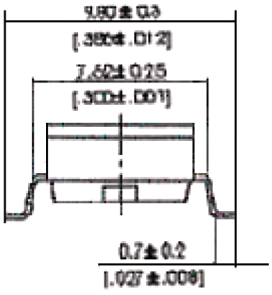
Care should be exercised so that flux from the upper part of the printed circuit board does not adhere to the switch.

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: ±0.2mm (±0.008")

Models For NDI

Number of ways	Dimension A	Dimension B	Part Number
02	6.02 (0.237)	2.54 (0.1)	MCNDI-02S
04	11.1 (0.437)	7.62 (0.3)	MCNDI-04S
06	16.18 (0.637)	12.7 (0.5)	MCNDI-06S
08	21.26 (0.837)	17.78 (0.7)	MCNDI-08S
10	26.34 (1.037)	22.86 (0.9)	MCNDI-10S

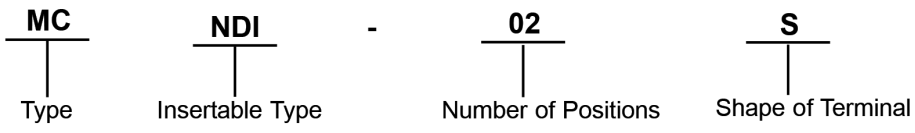
Dimensions : Millimetres (Inches)

Models For DM(R)

Number of Ways	Dimension A	Dimension B	Part Number
2	6.02 (0.237)	2.54 (0.1)	MCDM(R)-02-T
4	11.1 (0.437)	7.62 (0.3)	MCDM(R)-04-T
6	16.18 (0.637)	12.7 (0.5)	MCDM(R)-06-T
8	21.26 (0.837)	17.78 (0.7)	MCDM(R)-08-T
10	26.34 (1.037)	22.86 (0.9)	MCDM(R)-10-T

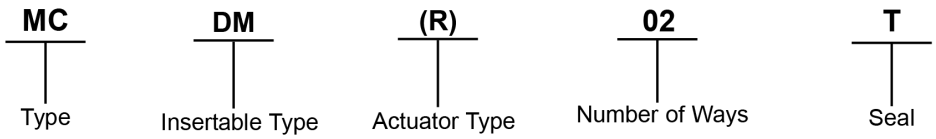
Dimensions : Millimetres (Inches)

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
Actutor Type	: Recessed Acutator
Number of Ways	: 02, 04, 06, 08 and 10
Seal	: T = Top Tape Sealed