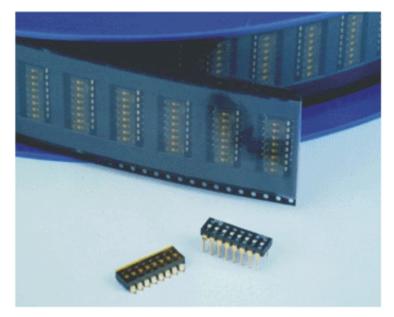
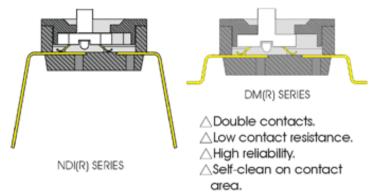
0.70







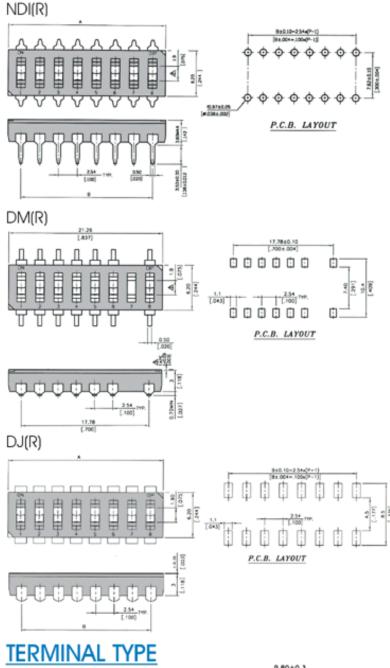
## CONTACT SYSTEM OF NDI(R) & DM(R) SERIES



### **FEATURES**

- Splay terminals allow for automatic insertion by IC insertion machine.
- 2.Straight terminals are available for manual insertion.
- Insert molding of terminals and ultrasonic welding improve flux proofness and enable flux washing in whole by top tape sealing.
- NDI series (raised actuator) and NDIR series (recessed actuator) available for different purposes.
- Double contacts offers high reliability.
- file:///C|/Windows/DESKTOP/productDIPTRONICSs.htm (1 of 3) [21/05/02 09:26:07]

## DIMENSIONS



[.386±.012]

7.62±0.25 [.300±.001]

#### **PRODUCTS**

Double confacts offers high reliability.

Vapor phase solderable, IR-reflow solderable.

▲Terminal plating by gold give excellent results when soldering

▲Terminal plating: Tin / lead available too.

### **MATERIALS**

∆BASE & COVER: UL94V-0 PPS HighTemp.

Thermoplastic. Color: Black.

△ACTUATOR: UL94V-0 Nylon Thermoplastic.

△ TERMINAL: Brass.

▲CONTACT PLATING: Gold plating over nickel.

▲TERMINAL PLATING: Gold.(or Tin / lead available)

∆ TAPE PLATING: KAPTON

### **SPECIFICATION**

MECHANICAL:

Mechanical Life: 2000 operations per switch.

Operation Force: 1000gf max.

Stroke: 1.0mm

Operation Temp:  $-20^{\circ}$ C to  $85^{\circ}$ C. Storage Temp:  $-40^{\circ}$ C to  $85^{\circ}$ C.

Vibration Test: MIL-STD-202F METHOD 201A.

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

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), 11 msec.

Direction and times: 6 sides and 3 times in

each direction. High reliability.

ELECTRICAL

Electrical Life: 2000 operations min. per switch 24VDC,

25mA

Non-Switching Rating: 100mA, 50VDC,

Switching rating: 25mA 24VDC.

Contact resistance: (a)  $50m\Omega$  max.at initial.

(b)  $100 m\Omega$  max.after life test.

Insulation Resistance:  $100M\Omega$  min. at 500VDC.

Dielectric Strength: 500VAC/1 minute.

Capacitance: 5pF max.

Circuit: Single pole single throw.

# SOLDERING AND CLEANING PROCESSES

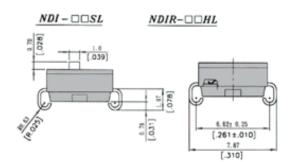
For best results, please follow these recommendation:

△Keep all switch contacts in their "OFF" position for all

operations.

AWAVE SOI DERING: Recommended solder file:///C|/Windows/DESKTOP/productDIPTRONICSs.htm (2 of 3) [21/05/02 09:26:07]





DJ SERIES

DjR SERIES

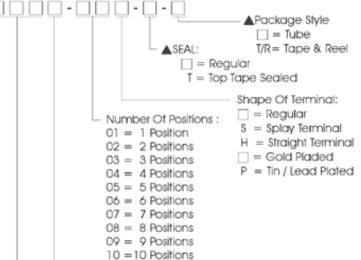
100~10

General Tolerance:  $\pm$  0.2mm(  $\pm$  0.008")

### **MODELS**

DJ-12 DJR-12	DM-12 DMR-12	NDI-12 NDIR-12	12	31.42[1.237]	27.94[1.100]
DJ-10 DJR-10	DM-10 DMR-10	NDI-10 NDIR-10	10	26.34[1.037]	22.86[.900]
DJ-09 DJR-09	DM-09 DMR-09	NDI-09 NDIR-09	9	23.80[.937]	20.32[.800]
DJ-08 DJR-08	DM-08 DMR-08	NDI-08 NDIR-08	8	21.26[.837]	17.78[.700]
DJ-07 DJR-07	DM-07 DMR-07	NDI-07 NDIR-07	7	18.72[.737]	15.24[.600]
DJ-06 DJR-06	DM-06 DMR-06	NDI-06 NDIR-06	6	16.18[.637]	12.70[.500]
DJ-05 DJR-05	DM-05 DMR-05	NDI-05 NDIR-05	5	13.64[.537]	10.16[.400]
DJ-04 DJR-04	DM-04 DMR-04	NDI-04 NDIR-04	4	11.10[.437]	7.62[.300]
DJ-03 DJR-03	DM-03 DMR-03	NDI-03 NDIR-03	3	8.56[.337]	5.08[.200]
DJ-02 DJR-02	DM-02 DMR-02	NDI-02 NDIR-02	2	6.02[.237]	2.54[.100]
DJ-01 DJR-01	DM-01 DMR-01	NDI-01 NDIR-01	1	3.48[.137]	_
PROD.NO.			NO.OF POS.	DIM.A	DIM.B
		SCH	EMATIC(T	YP)	

### **HOW TO ORDER**

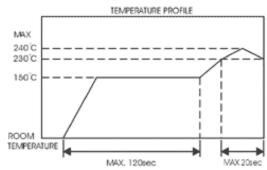


#### PRODUCTS

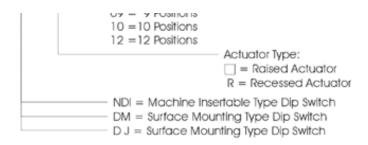
operations.

△WAVE SOLDERING: Recommended solder temperature at 500°F (260°C) max. 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.



- ∆ 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.



Example: DMR-08-T is a Surface Mounting Type Dip Switch Recessed Actuator 8 Position, with Top Tape Sealed. NDIR-08-T is a Machine Insertable Type Dip Switch Recessed Actuator 8 Position, with Top Tape Sealed.

### **PACKING**

All DIP switches are shipped in standard IC tubes or DMR in Tape & Reel Package with all poles in the "OFF" position.

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
\*MORE UPDATE INFORMATION, PLEASE CONSULT DIPTRONICS.