

Rotary DIP Switches, Low Profile, Process Sealed, 7MM, Through Hole and Surface Mount

FEATURES:

- 40% PCB area space savings over standard rotary dials
- 50% Lower in profile than standard rotary dials
- Hexadecimal or binary code, complement available
- Deflection temperature of 250°C for SMT reflow soldering
- Gold contacts, tin/lead terminals
- Sealed "O" ring design

MATERIAL SPECIFICATIONS:

Fixed Contacts/Terminals.....Brass, gold plated / tin/lead
 Moving Contacts.....BeCu, gold plated
 Case MaterialPPS UL94V-0
 RotorNylon UL94V-0
 Cover MaterialPPS UL94V-0
 O-RingFluoro Rubber

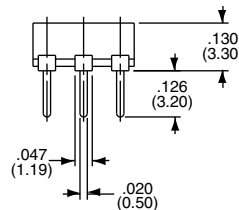
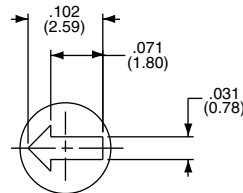
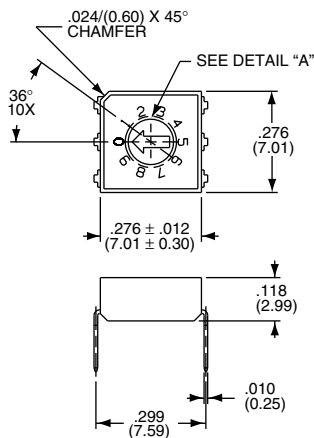
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-10°C to +85°C
 Storage Temperature.....-45°C to +100°C
 Solder Heat ResistanceMIL-STD 202F, Method 210
 IR Process CapabilityEIA-364-56 Level II (250°C peak)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA Max. @ 20 VDC
 Initial Contact Resistance50m Max. @ 2 VDC 10mA
 Insulation Resistance1,000 Megohms max.
 Dielectric Strength300 VAC for 1 minute
 Actuator Travel.....36° 10 Position, 22.5° 16 position
 Operating Force200 Grams avg.
 Life Expectancy20,000 Steps, mechanical

P.C. MOUNT



MRD10



MRD10S

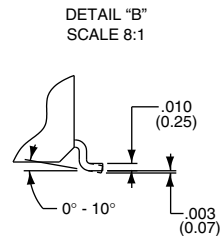
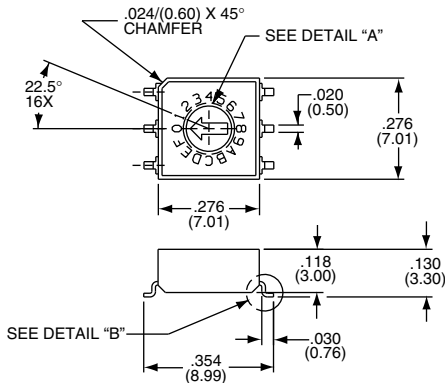


MRD16C



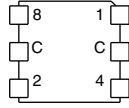
MRD16S

SURFACE MOUNT

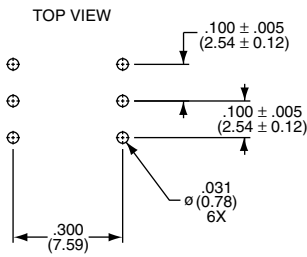


Rotary DIP Switches, Low Profile, Process Sealed, 7MM, Through Hole and Surface Mount

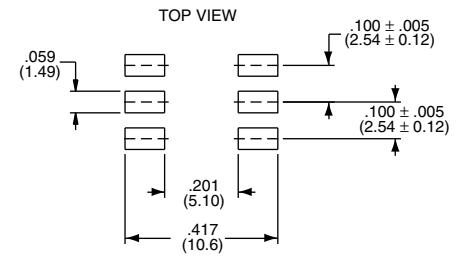
TERMINAL IDENTIFICATION
VIEWED FROM BOTTOM SWITCH



P.C. LAYOUT (THRU HOLE)



P.C. LAYOUT (SURFACE MOUNT)



TRUTH TABLES

10-Position, BCD (red actuator)

| Pos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|------|---|---|---|---|---|---|---|---|---|---|
| C | X | X | X | X | X | X | X | X | X | X |
| 1 | | X | | X | | X | | X | | X |
| 2 | | | X | X | | | X | X | | |
| 4 | | | | | X | X | X | X | | |
| 8 | | | | | | | | | X | X |

16-Position, Hexadecimal (green actuator)

| Pos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 1 | | X | | X | | X | | X | | X | | X | | X | | X |
| 2 | | | X | X | | | X | X | | | X | X | | | X | X |
| 4 | | | | | X | X | X | X | | | | | X | X | X | X |
| 8 | | | | | | | | | X | X | X | X | X | X | X | X |

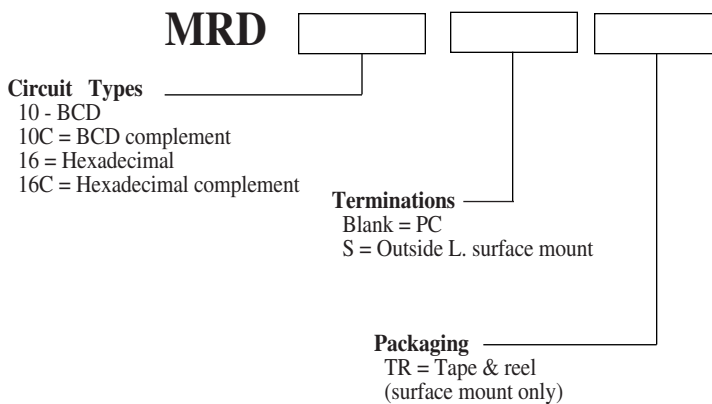
10-Position, BCD Complement (orange actuator)

| Pos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|------|---|---|---|---|---|---|---|---|---|---|
| C | X | X | X | X | X | X | X | X | X | X |
| 1 | X | | X | | X | | X | | X | |
| 2 | X | X | | | X | X | | | X | X |
| 4 | X | X | X | X | | | | | X | X |
| 8 | X | X | X | X | X | X | X | X | | |

16-Position Hexadecimal Complement (white actuator)

| Pos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 1 | X | | X | | X | | X | | X | | X | | X | | X | |
| 2 | X | X | | | X | X | | | X | X | | | X | X | | |
| 4 | X | X | X | X | | | | | X | X | X | X | | | | |
| 8 | X | X | X | X | X | X | X | X | | | | | | | | |

HOW TO ORDER



| Color Code | |
|--------------|----------------|
| Circuit Type | Actuator Color |
| 10 | Red |
| 10C | Orange |
| 16 | Green |
| 16C | White |