

**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 Material .....PPS UL94V-0  
 Rotor .....Nylon UL94V-0  
 Cover Material .....PPS UL94V-0  
 O-Ring .....Fluoro Rubber

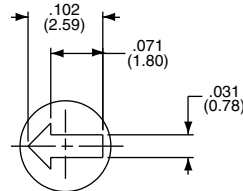
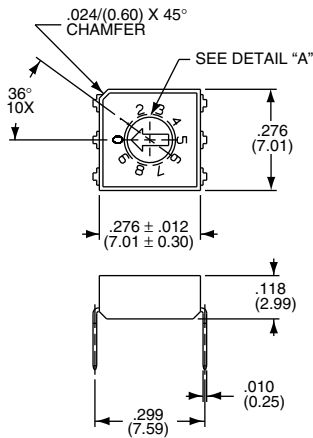
**ENVIRONMENTAL SPECIFICATIONS:**

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

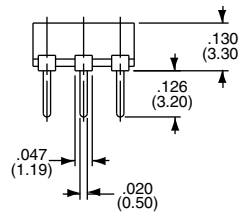
**TYPICAL PERFORMANCE CHARACTERISTICS:**

Contact Rating .....0.4 VA Max. @ 20 VDC  
 Initial Contact Resistance .....50m Max. @ 2 VDC 10mA  
 Insulation Resistance .....1,000 Megohms max.  
 Dielectric Strength .....300 VAC for 1 minute  
 Actuator Travel.....36° 10 Position, 22.5° 16 position  
 Operating Force .....200 Grams avg.  
 Life Expectancy .....20,000 Steps, mechanical

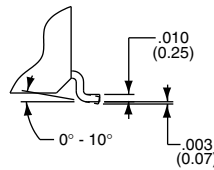
**P.C. MOUNT**



**DETAIL "A"**  
SCALE 8:1



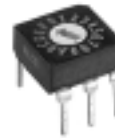
**DETAIL "B"**  
SCALE 8:1



MRD10



MRD10S

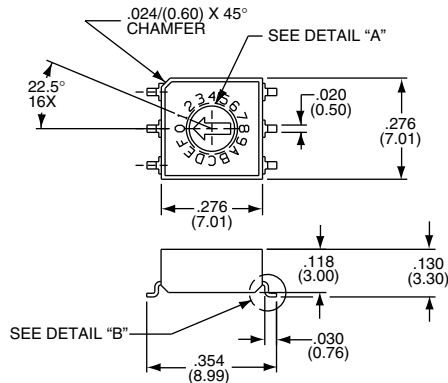


MRD16C



MRD16S

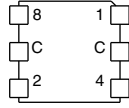
**SURFACE MOUNT**



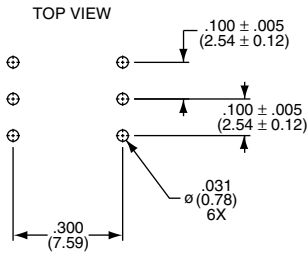
SEE DETAIL "B"

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

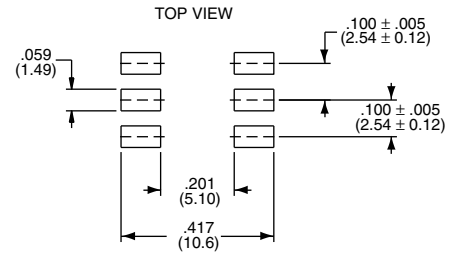
TERMINAL IDENTIFICATION  
VIEWED FROM BOTTOM SWITCH



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

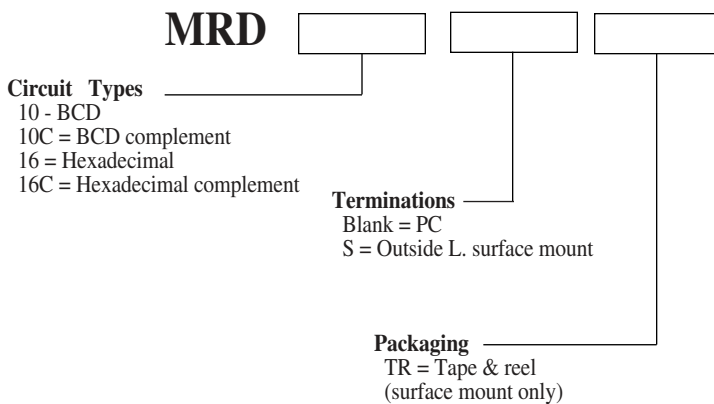
**10-Position, BCD Complement (orange actuator)**

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