

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Rotary Dip Switches, Process Sealed, Through Hole and Surface Mount

MATERIAL SPECIFICATIONS:

Contacts	Gold flashed copper alloy
Terminals	Tin lead plated brass
Base, Rotor, Case	PC, Glass filled PBT resin (blue case) SMT, Polymide (white case)
Movable Contact	Gold flashed copper alloy
Ball Support Plate	Copper alloy
Detent Spring	Stainless steel (spring)

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	-22°F to +185°F (-30°C to +85°C)
Storage Temperature	-49°F to 212°F (-45°C to +100°C)
Vibration Resistance	Subjected to vibration of 10-55hz per second with a total amplitude of .06 in. in 3 mutually perpendicular directions for 2 hours each
Shock Resistance	Will withstand 50G acceleration in 3 different planes for a period of 11 milliseconds
Salt Spray Test	Withstands an atmosphere of 5% salt water at temperature of 50°C
Hydrogen Sulfide Test	Withstands an atmosphere of 15-20 PPM hydrogen sulfide gas at temperature of 40°C for 240 hours
Atmospheric Test	Withstands an atmosphere of 30-50 PPM sulfite gas at a temperature of 40°C for 240 hours
Solder Heat Resistance	Withstands 5 sec. flow solder bath of 260°C when mounted on a .06" thick PC board per MIL-STD 202, Method 210
Bubble Test	Withstands submersion in 60°C Flouriert for 1 min. without leakage

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating	0.4 VA @ 20 VDC max.
Initial Contact Resistance	50 Megohms max. @ 2 VDC
Insulation Resistance	1,000 Megohms min. @ 100 VDC
Dielectric Strength	300 VAC RMS @ sea level
Operating Force	6 Oz.-in. nom.
SMT Operating Force	3 Oz.-in. nom.
Life Expectancy	20,000 Steps



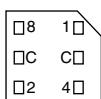
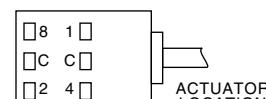
DRD10E



DRD16CE

TRUTH TABLES

Terminal Identification
(view from bottom of the switch)

VIEW FROM BOTTOM
OF THE SWITCHACTUATOR
LOCATION

NOTE: COMMON TERMINALS ARE CONNECTED INTERNALLY.

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 (black 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	X	X
8									X	X	X	X	X	X	X	X

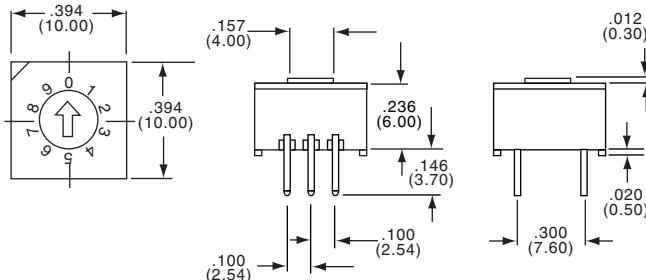
10-Position, BCD Complement (orange actuator)

Pos.	0	1	2	3	4	5	6	7	8	9
Ā	X	X	X	X	X	X	X	X	X	X
Ā	X	X	X	X	X	X	X	X	X	X
Ā	X	X	X	X	X	X	X	X	X	X
Ā	X	X	X	X	X	X	X	X	X	X
Ā	X	X	X	X	X	X	X	X	X	X

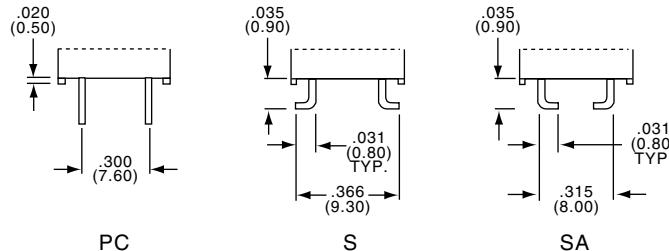
16-Position Hexadecimal Complement (white actuator)

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

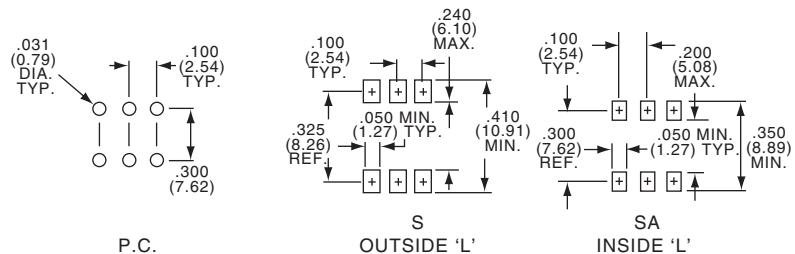
"D" FLUSH ACTUATOR



TERMINATIONS



LAYOUTS



HOW TO ORDER

DRD

E

Blank = Tubes
 TR = Tape & Reel
 (for surface mount only)

10 = BCD
 10C = BCD Complement
 16 = Hexadecimal
 16C = Hexadecimal Complement

Blank = PC
 SA = SMT (Inside L)
 S = SMT (Outside L)