



2300 SERIES MICRO-DIP® PRINTED CIRCUIT BOARD SWITCHES

An EECO innovation, the 2300 Series MICRO-DIP® family includes the industry's only double pole rotary DIP switch.

Ideal for CMOS applications, the 2300 Series double pole switch offers a unique output arrangement in which all four bits are always connected to one of the two commons, allowing the use of a single pull-up resistor instead of 4 as required by conventional DIP switches. The 2300 Series includes 10 and 16 position double pole models, plus a 10 single pole right angle version. The double pole switches are available with process seals for wave soldering, and all 2300 Series are color coded for easy identification. The 2300 Series is covered by EECO's exclusive *Lifetime Warranty*.

All 2300 Series products are **Lead-Free** and fully **RoHS compliant**.



SPECIFICATIONS

MECHANICAL

No. of Switching Positions	10 & 16
Life	10,000 Detents at +25°C
Rotational Torque (Initial)	1.0 - 2.5 Inch/Ounces
Terminal Strength	Pull 3 Pounds, Push 3 Pounds, for 15 Seconds
Weight	0.03 Oz (.85 Gr.)

ELECTRICAL

Maximum Electrical Current, Non-Switching	1A
Maximum Rated Load, Switching	100 mA at 5 VDC Resistive
Contact Resistance (Initial)	100 mΩ Maximum
Insulation Resistance	1,000 MΩ Minimum At 100 VDC
Dielectric Withstanding Voltage	250 VAC (RMS)

ENVIRONMENTAL

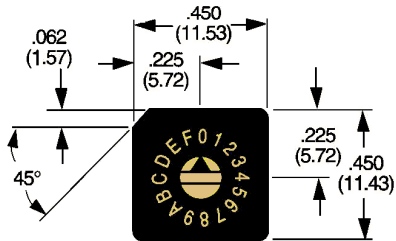
Operating Temperature	-25°C To +85°C
Storage Temperature	-55°C To +100°C
Seal (DP Models)	Top: Removable Plastic Bottom: Epoxy

MATERIALS

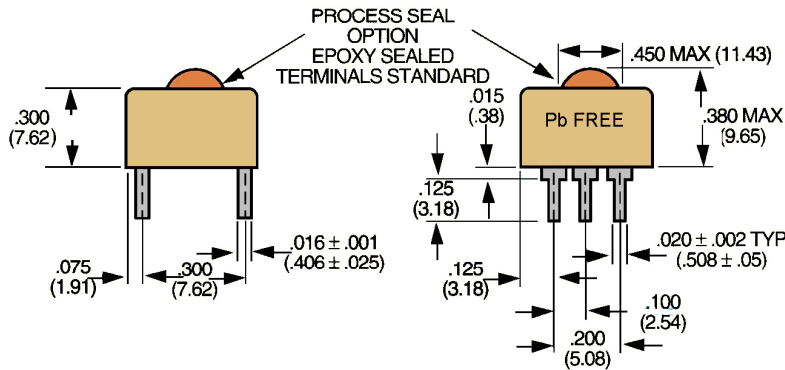
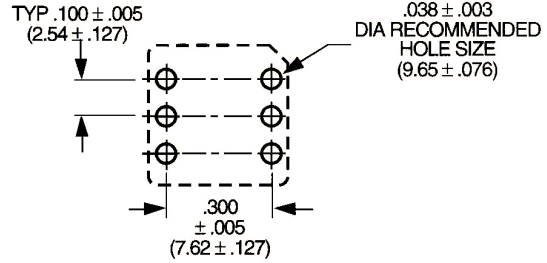
Housing and Base	Glass Reinforced 6/6 Nylon, UL 94 V0
Contact	Copper Alloy Base, Gold Over Nickel Plate
Terminal	Matte Tin With Whisker Inhibitors Over Nickel Plate

DOUBLE POLE MODELS

TYP 10 POS MARKING

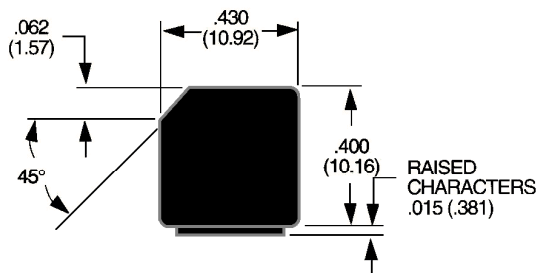


PRINTED CIRCUIT BOARD LAYOUT
(As viewed from bottom of switch)

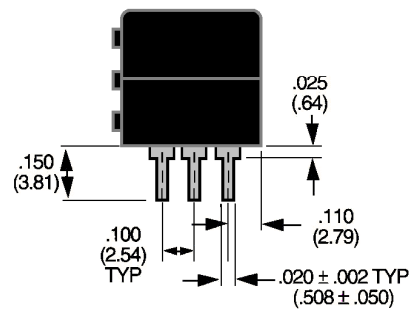
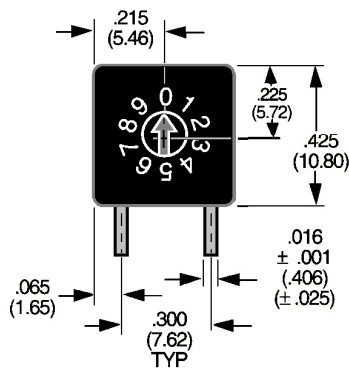
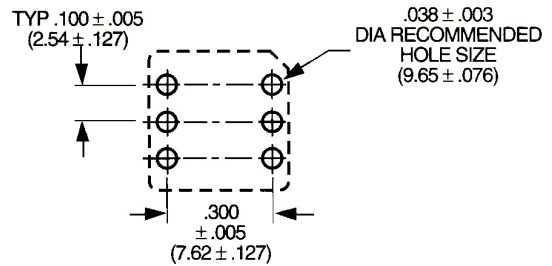


NOTES:
TOLERANCE ON ALL DIMENSIONS
± .010 UNLESS OTHERWISE SPECIFIED
() METRIC DIMENSIONS IN MM

SINGLE POLE, 10 POSITION SIDE ADJUST MODEL



PRINTED CIRCUIT BOARD LAYOUT
(As viewed from bottom of switch)



TRUTH TABLES

B02

BCD 1 Pole 10 Position					
D I A L	Common (C) connected to terminals indicated				
	1	2	4	8	
0					
1	●				
2		●			
3	●	●			
4			●		
5	●		●		
6		●	●		
7	●	●	●		
8				●	
9	●			●	

231002G

D02

BCD 2 Pole 10 Position Sep Com to NT Bits					
D I A L	Common C (●) and C (★) connected to terminals indicated				
	1	2	4	8	
0	★	★	★	★	
1	●	★	★	★	
2	★	●	★	★	
3	●	●	★	★	
4	★	★	●	★	
5	●	★	●	★	
6	★	●	●	★	
7	●	●	●	★	
8	★	★	★	●	
9	●	★	★	●	

230056GB
230056GP

D06

2 Pole Binary with Sep Com to NT Bits					
D I A L	Common C (●) and C (★) connected to terminals indicated				
	1	2	4	8	
0	0	★	★	★	★
1	1	●	★	★	★
2	2	★	●	★	★
3	3	●	●	★	★
4	4	★	★	●	★
5	5	●	★	●	★
6	6	★	●	●	★
7	7	●	●	●	★
8	8	★	★	★	●
9	9	●	★	★	●
A	10	★	●	★	●
B	11	●	●	★	●
C	12	★	★	●	●
D	13	●	★	●	●
E	14	★	●	●	●
F	15	●	●	●	●

230057GB
230057GP

TERMINAL IDENTIFICATION

MODEL NUMBER	231002G	230056GB/GP	230057GB/GP	Notes 1. Views shown are of bottom (terminal side) of switch. 2. 231002G: connect both "C" terminals external to switch. 3. ● True Common 4. ★ Not True Common
CODE	B02	D02	D06	
TERMINAL I.D. AS VIEWED FROM BOTTOM OF SWITCH				
HOUSING MARKING	0-9	0-9	0-9, A-F	
NO. OF POSITIONS	10 SINGLE POLE	10 DOUBLE POLE	16 DOUBLE POLE	

PART NUMBERS AND FEATURES

PART NUMBER	SWITCH DESCRIPTION	NUMBER OF POSITIONS	TRUTH TABLE	COLOR CODE
SINGLE POLE BINARY				
231002G	Right Angle Mount BCD	10	B02	Black
DOUBLE POLE BINARY				
230056GB 230056GP	Double Pole Binary With Separate Common To Not True Bits	10	D02	Gray
230057GB 230057GP	Double Pole Binary With Separate Common To Not True Bits	16	D06	Almond

SEALING PROVISIONS

PART NUMBER	DUST SEAL	BOTTOM EPOXY SEAL	REMOVABLE TOP PROCESS SEAL
231002G	●		
230056GB		●	
230056GP		●	●
230057GB		●	
230057GP		●	●

Refer to EECO Switch document "Soldering and Cleaning Specifications" for additional processing information.

RoHS COMPLIANCE

EECO Switch is fully committed to complying with the European Lead-Free and RoHS directives. All EECO 2300 Series switches marked the "Pb-Free" logo on the body of the part are Lead-Free and RoHS compliant.