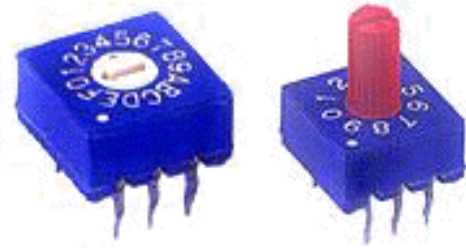


ERD SERIES

10x10 SIZE SEALED CONSTRUCTION ROTARY TYPE

PATENT NO.:610031162165814775(U.S.A.)

FEATURES

- Molded-in terminals and fully sealed construction.
- Standard 2.54mm pin spacing.
- All plastics UL 94V-0 grade fire retardant.
- Reliable contact and long-term stability.
- Binary decimal (8 or 10 positions) and hexadecimal (16 positions), real and complementary codes available.
- Pin-out compatible with most of current equivalents.
- Gold plated contacts to ensure low contact resistance.

SPECIFICATIONS

1 . ELECTRICAL

Contact rating	
switching	25 mA, 24 VDC
non-switching	100 mA, 50 VDC
Contact resistance	100 m Ω Max.
Insulation resistance	1000 M Ω Min. at 100 VDC
Dielectric strength	250 VAC Min. for 60 seconds

2 . MECHANICAL

Temperature Rating	
operating	-25°C to +70°C
storage	-40°C to +85°C
Operation force	500 gf-cm Max.
Mechanical life	2000 steps per position

Vibration	10Hz-50Hz-10Hz for 6Hrs.
Solderability	after flux 230±5°C for 5±0.5 seconds, 95% coverage
Resistance to soldering heat	260±5°C for 5±1 seconds.
Reflow soldering heat for SMT type(reference only)	reflow zone 230±5°C for 20 seconds.

PART NUMBERING SYSTEM

```

ERD 1 10 R S
|   |   |   |   |
|   |   |   |   |
+--- Setting:
|   |   |   |   |
|   |   |   |   |
S:Standard Type (Top Adjust Type)
R:Right Angle Type with Rows Spacing 2.54 mm
   Side Adjust Type)
F:Right Angle Type with Rows Spacing 5.08 mm
   (Side Adjust Type)
M:Surface Mounting Type with Top Tape Sealed
D:Surface Mounting Type with Top Tape Sealed
   in Tape & Reel Package
+--- Code: R:Real
|   |   |   |   |
|   |   |   |   |
|   |   |   |   |
C:Complement
+--- Number of positions: 08,10,16
+--- Rotor: 1:Flat Type (pin out 3:3)
|   |   |   |   |
|   |   |   |   |
|   |   |   |   |
2:Shaft Type(pin out 3:3)
|   |   |   |   |
|   |   |   |   |
|   |   |   |   |
4:Flat Type (pin out 1:4)
|   |   |   |   |
|   |   |   |   |
|   |   |   |   |
5:Shaft Type(pin out 1:4)
+--- Series name: ERD:Rotary Type Sealed Construction

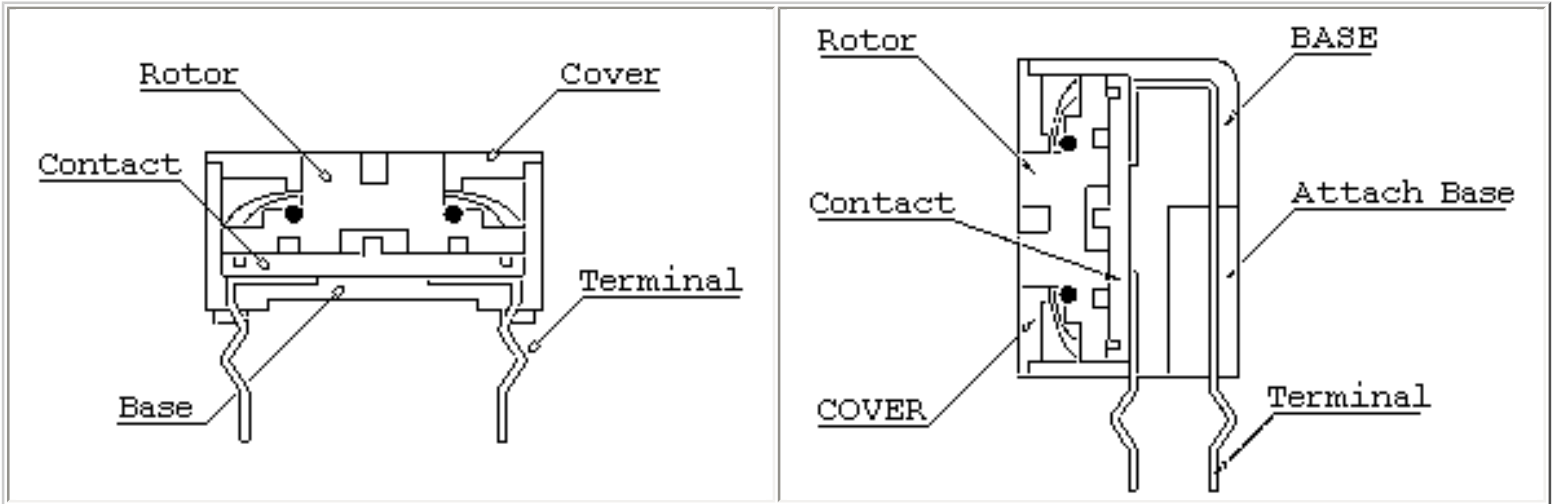
```

CODE

PIN NO.	POSITION															
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

-Real Code
Rotor color: White (3:3), Yellow (1:4)
-Complement Code
Rotor color: Red (3:3), Orange (1:4)

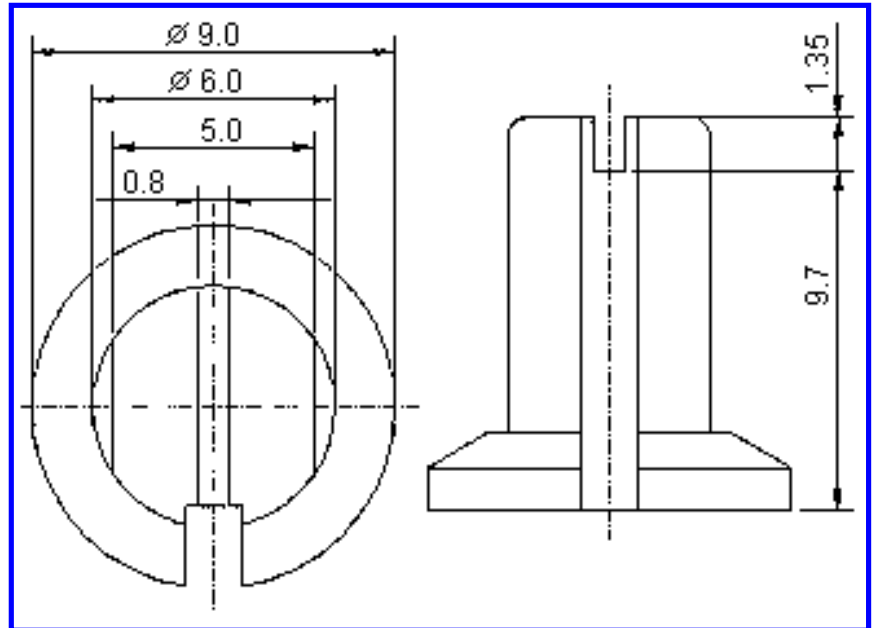
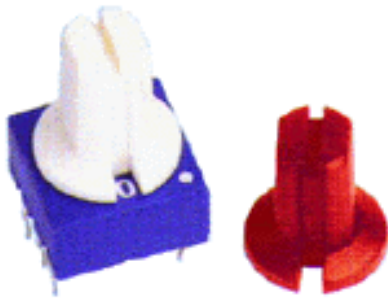
CONSTRUCTION



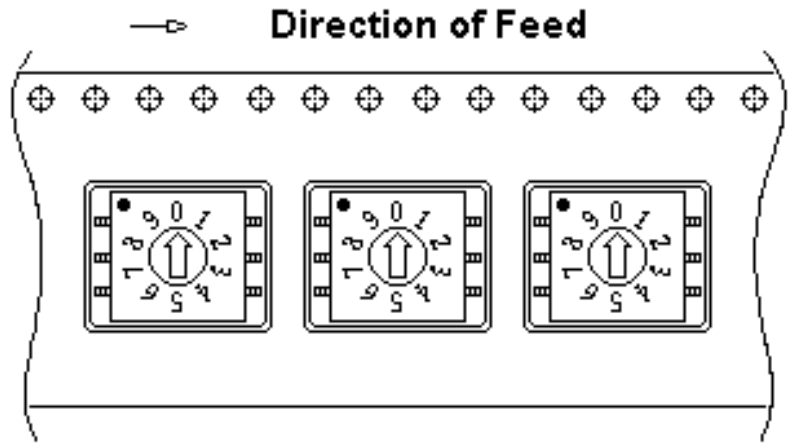
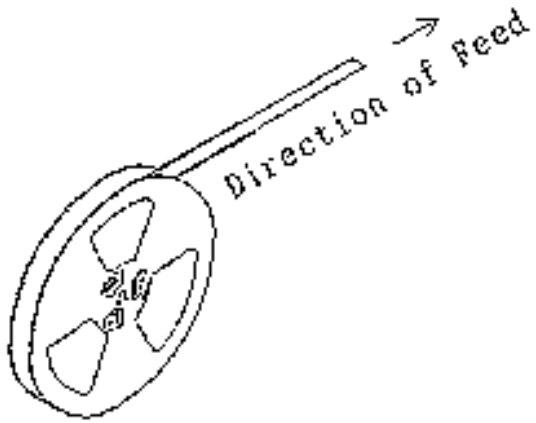
OPTIONS

- 1.Special marking available upon request.
- 2.Shaft Cover.

- 418-80100(White 3:3)
- 418-80200(Red 3:3)
- 418-80300(Yellow 1:4)
- 418-80400(Orange 1:4)



3.Tape & Reel Packaging (Per EIA STANDARD):



Each Reel contains 7000pcs switches with a 390mm minimum leader and a 160mm minimum trailer

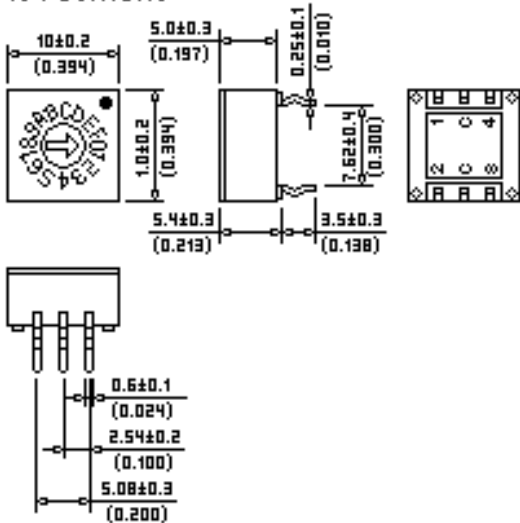
INTRODUCTION to USE ROTARY DIP SWITCH

SIZE	POSITIONS	CODE	PIN OUT	ROTOR	TYPE	PART NUMBER
10x10	8,10,16	REAL, COMPLEMENT	3:3	FLAT, SHAFT	STANDARD	ERD1xxxS, ERD2xxxS
					RIGHT ANGLE	ERD1xxxR/F, ERD2xxxR/F
				FLAT	SMT	ERD1xxxM
					SMT IN T&R	ERD1xxxD
			1:4	FLAT, SHAFT	STANDARD	ERD4xxxS, ERD5xxxS
					RIGHT ANGLE	ERD4xxxR/F, ERD5xxxR/F
				FLAT	SMT	ERD4xxxM
					SMT IN T&R	ERD4xxxD

DIMENSIONS AND CIRCUITRY (UNIT: mm) PIN OUT 3:3

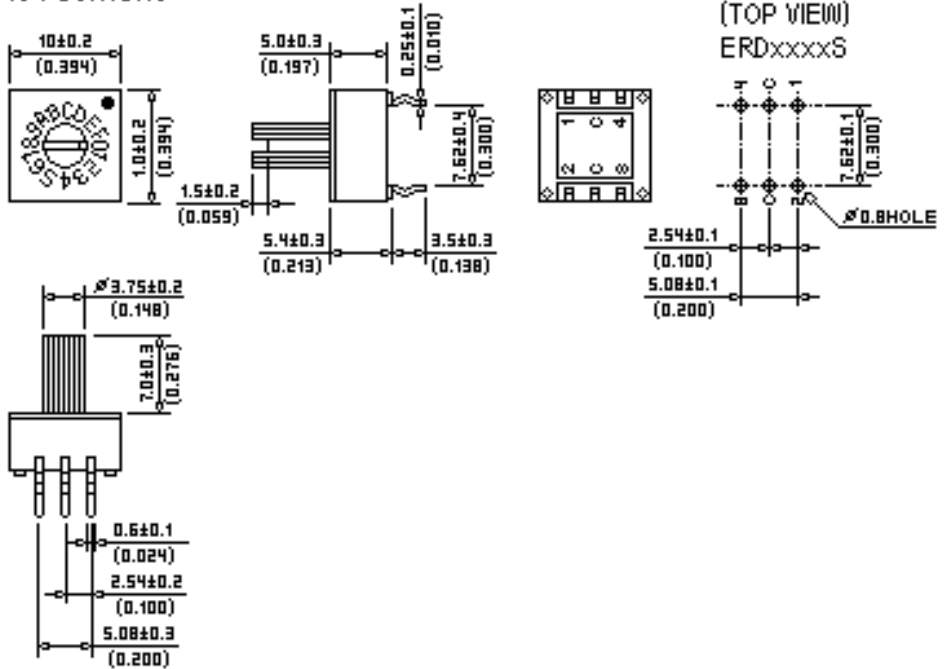
ERD1xxxS Flat Type STANDARD TYPE

16 POSITIONS



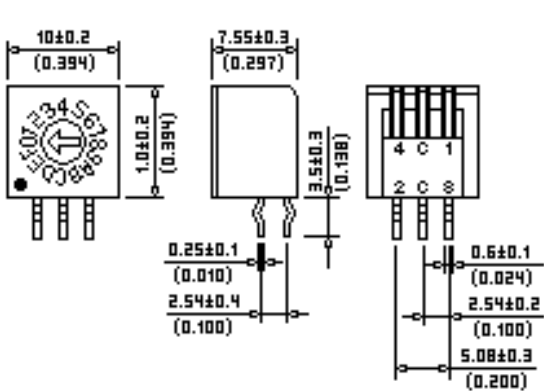
ERD2xxxS Shaft Type

16 POSITIONS



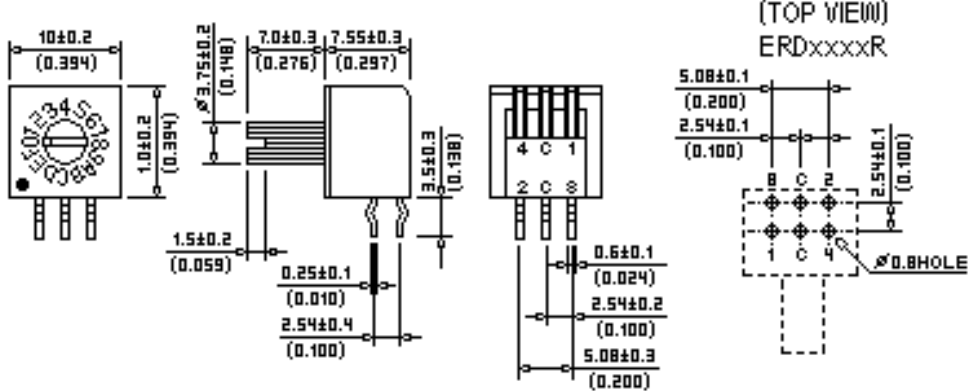
ERD1xxxR Flat Type RIGHT ANGLE TYPE PITCH: 2.54mm

16 POSITIONS



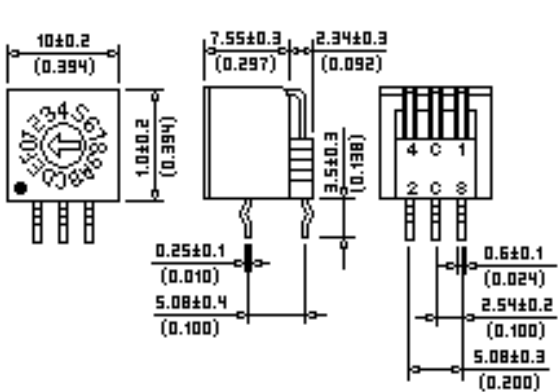
ERD2xxxR Flat Type

16 POSITIONS



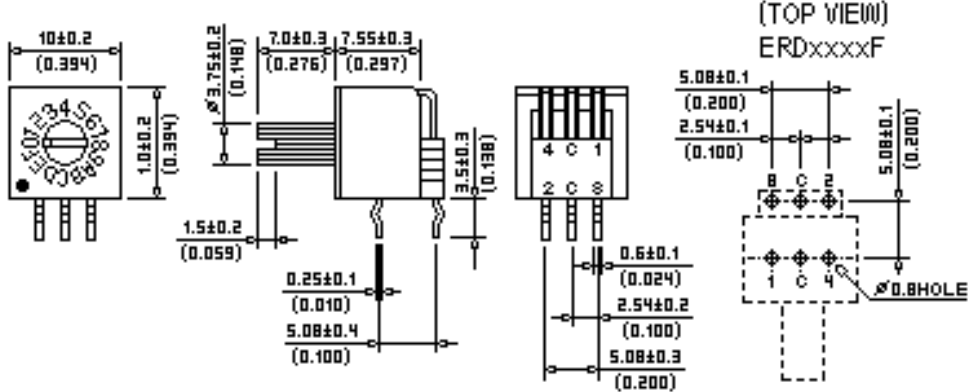
ERD1xxxF Flat Type RIGHT ANGLE TYPE PITCH: 5.08mm

16 POSITIONS



ERD2xxxF Flat Type

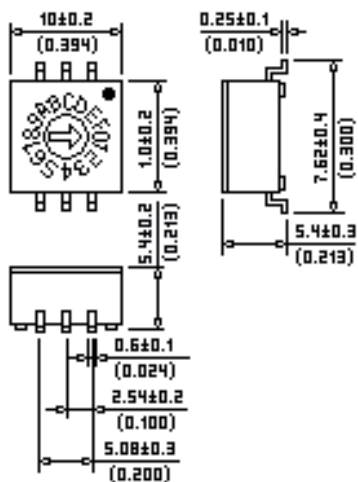
16 POSITIONS



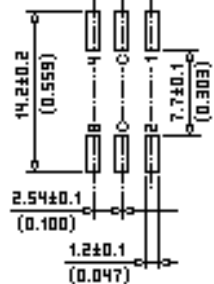
ERD1xxxM Flat Type

SMT TYPE
(ONLY FLAT TYPE AVAILABLE)

16 POSITIONS



P.C.B. LAYOUT
(TOP VIEW)
ERDxxxxM

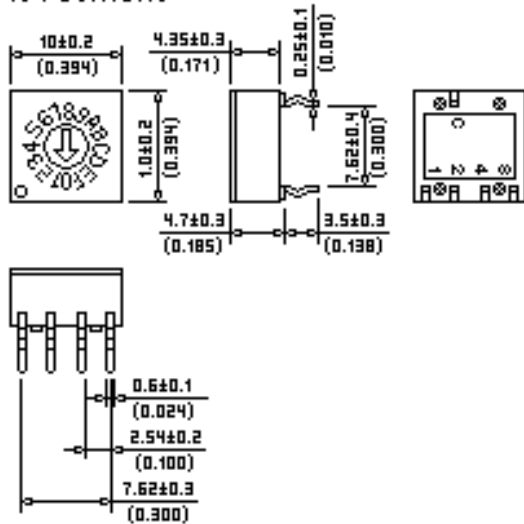


DIMENSIONS AND CIRCUITRY (UNIT: mm) PIN OUT 1:4

ERD4xxxS Flat Type

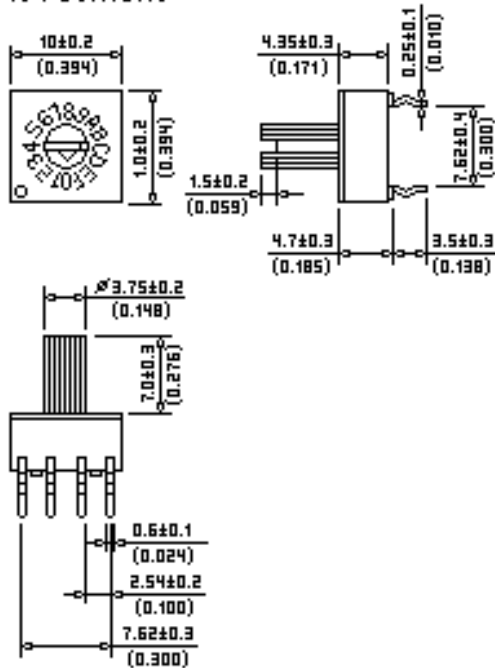
STANDARD TYPE

16 POSITIONS

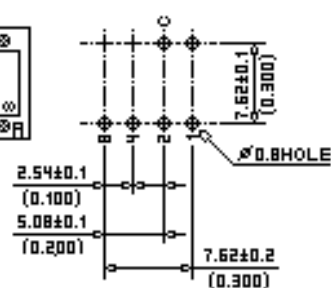


ERD5xxxS Shaft Type

16 POSITIONS



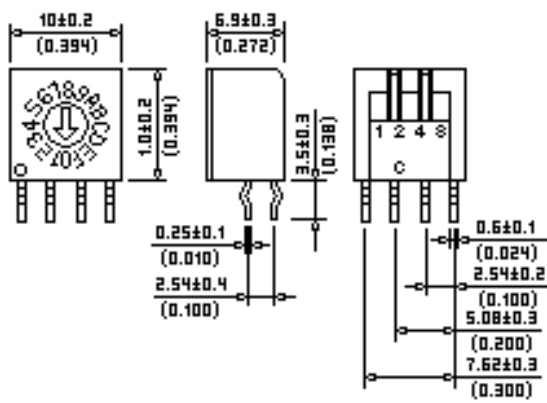
P.C.B. LAYOUT
(TOP VIEW)
ERDxxxxS



ERD4xxxR Shaft Type RIGHT ANGLE TYPE

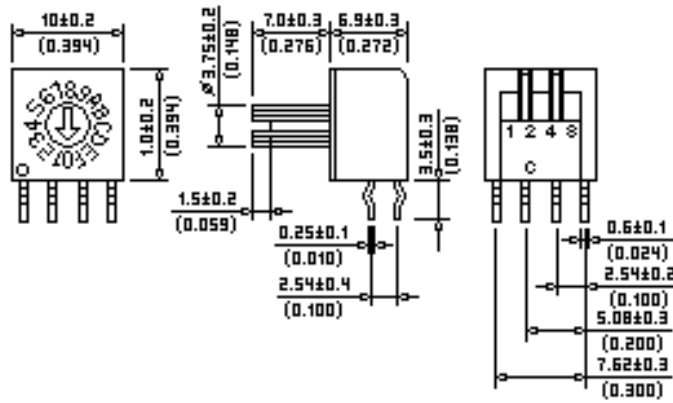
PITCH: 2.54mm

16 POSITIONS

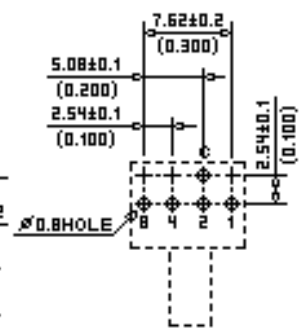


ERD5xxxR Shaft Type

16 POSITIONS



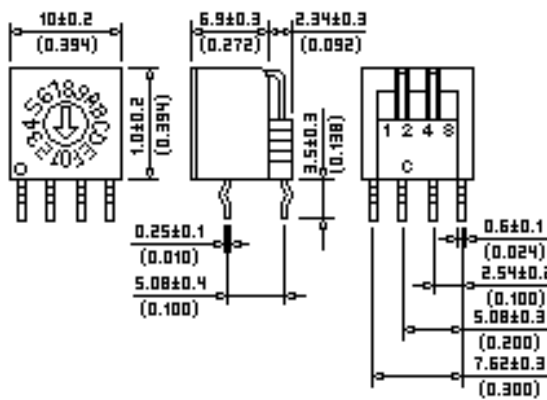
P.C.B. LAYOUT (TOP VIEW) ERDxxxxR



ERD4xxxF Flat Type RIGHT ANGLE TYPE

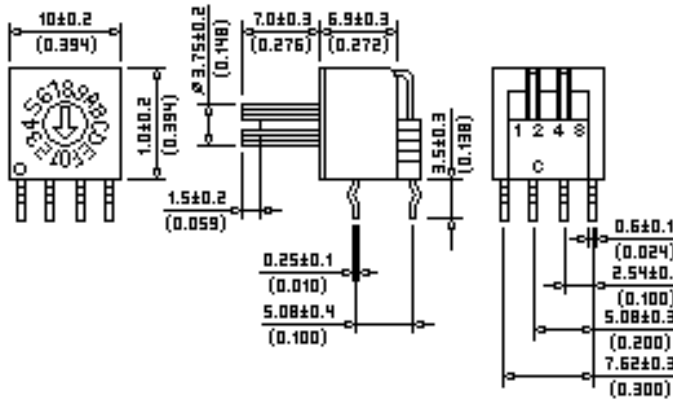
PITCH: 5.08mm

16 POSITIONS

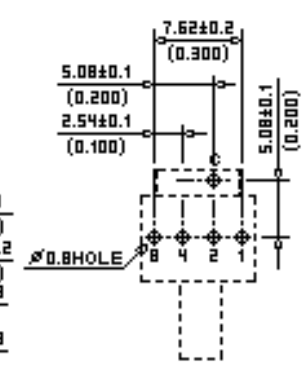


ERD5xxxF Flat Type

16 POSITIONS



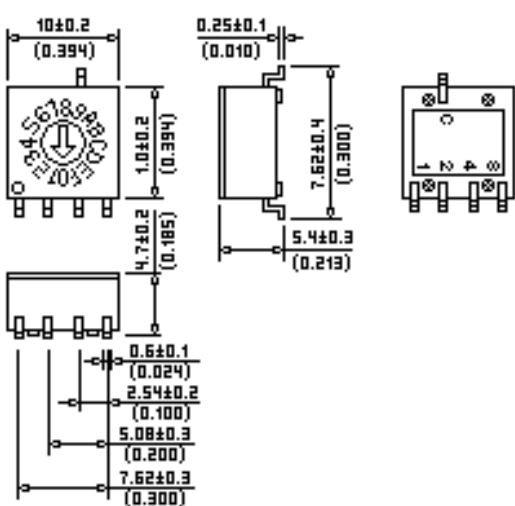
P.C.B. LAYOUT (TOP VIEW) ERDxxxxF



ERD4xxxM Flat Type SMT TYPE

(ONLY FLAT TYPE AVAILABLE)

16 POSITIONS



P.C.B. LAYOUT (TOP VIEW) ERDxxxxM

