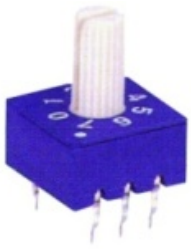
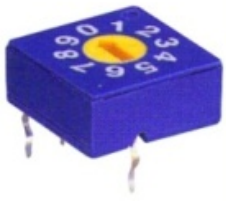
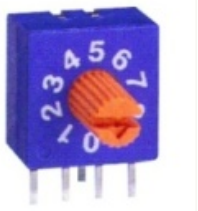
ERD SERIES
10x10 SIZE SEALED CONSTRUCTION ROTARY TYPE

PIN OUT (3:3)	
	
ERD 1xxxx (Flat Type)	ERD 2xxxx (Shaft Type)

PIN OUT(1:4)	
	
ERD 4xxxx (Flat Type)	ERD 5xxxx (Shaft Type)

■ FEATURES

- Molded-in terminals and fully sealed construction.
- 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.

■ APPLICATIONS

- Address switching applications
- Data storage devices
- Computer and peripherals
- Instrumentation

■ SPECIFICATIONS

1.ELECTRICAL

● Contact rating	switching	25mA, 24VDC
	non-switching	100mA
● Contact resistance		100mΩ Max.
● Insulation resistance		1000MΩ Min. at 100VDC
● Dielectric strength		250VAC Min. for 60 seconds

2.MECHANICAL AND ENVIRONMENTAL

● Temperature rating	operating	-25℃ to +70℃
	Storage	-40℃ to +85℃
● Operation force		500 gf-cm Max.

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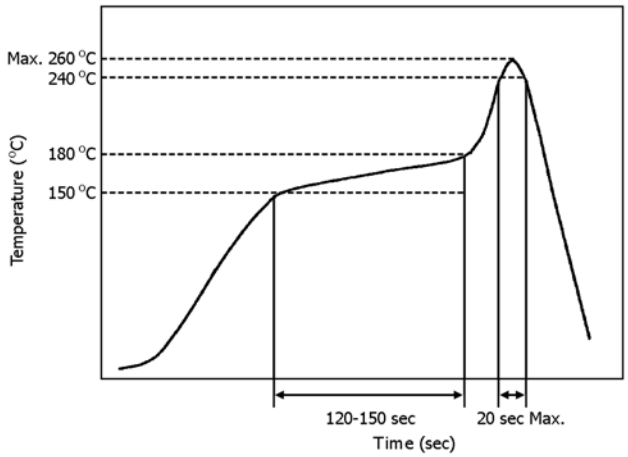
● Mechanical life	2000 steps per position
● Vibration	10Hz-50Hz-10Hz for 6 Hrs.
● Solderability (for through hole type)	after flux 230±5℃ for 5±0.5 seconds,95% coverage
● Resistance to soldering heat (for through hole type)	260±5℃ for 5±1 seconds
● Reflow soldering heat for SMT type(reference only)	

■ PART NUMBERING SYSTEM

ERD 1 10 R S Z

- Z: RoHS Compliant
- Setting :
  - S: Standard Type (Top Adjust Type)
  - R: Right Angle Type with Row Spacing 2.54 mm (Side Adjust Type)
  - F: Right Angle Type with Row 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
  - A: Real / Cross Shaped Slot Type
  - B: Complement / Cross Shaped Solt Type
- 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

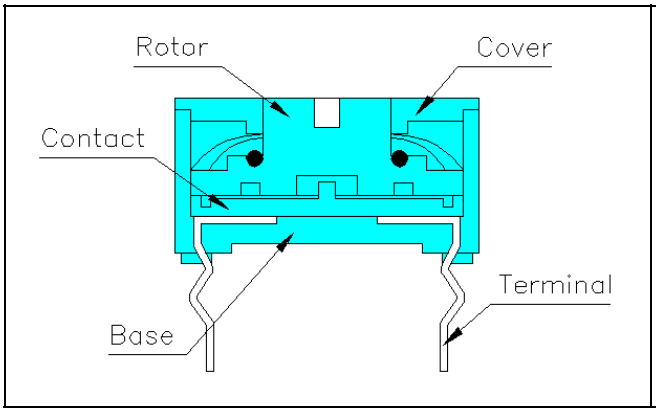
■ CODE

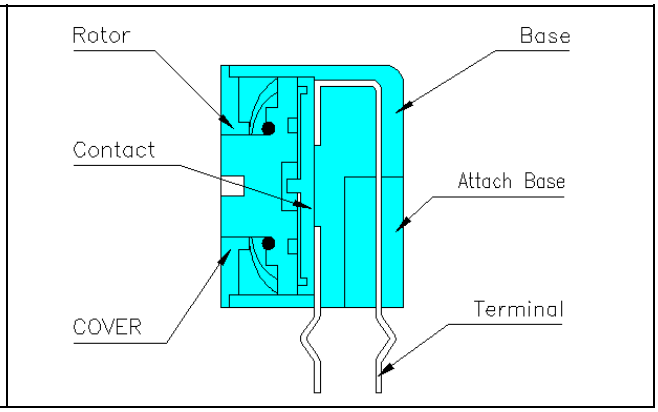
PIN NO.	POSITIONS															
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
1	○	●	○	●	○	●	○	●	○	●	○	●	○	●	○	●
2	○	○	●	●	○	○	●	●	○	○	●	●	○	○	●	●
4	○	○	○	○	●	●	●	●	○	○	○	○	●	●	●	●
8	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●

●… Real Code
Rotor color:
White (3:3), Yellow (1:4)

○… Complement Code
Rotor color:
Red (3:3), Orange (1:4)

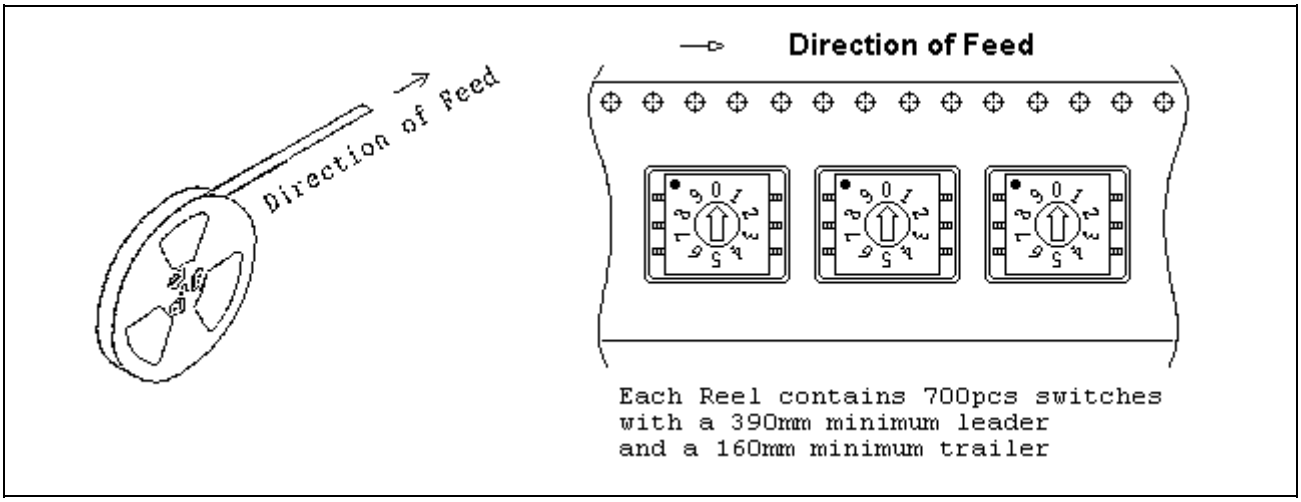
■ CONSTRUCTION





■ PACKING

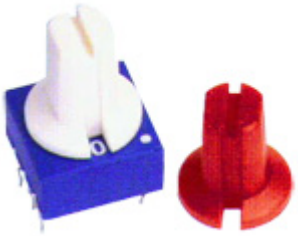
1.Tape & Reel Packaging (Per EIA STANDARD)

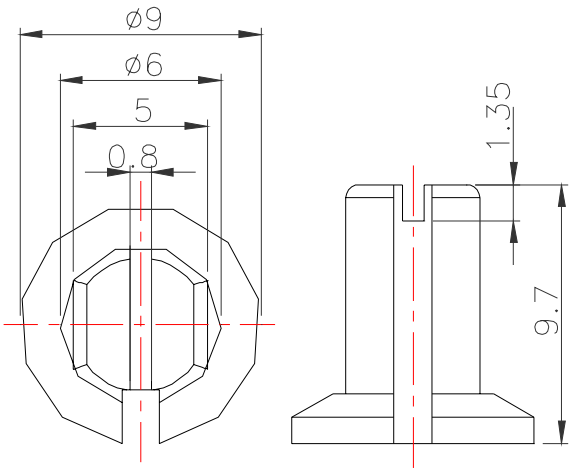


■ OPTIONS

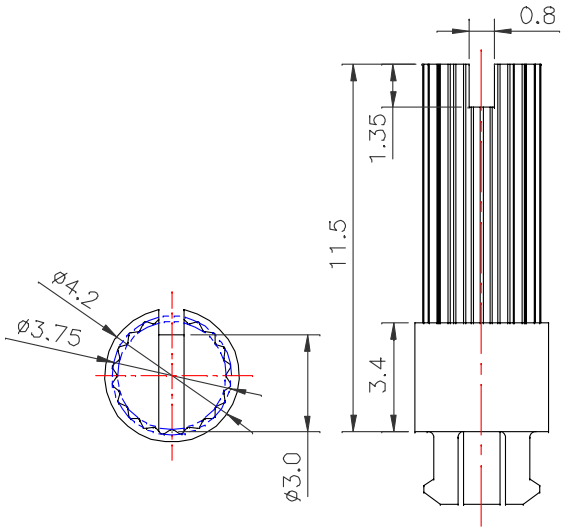
1.Special marking available upon request

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





3.Shaft (For Cross Slot Type Only)
418-90010(White 3:3)
418-90020(Red 3:3)

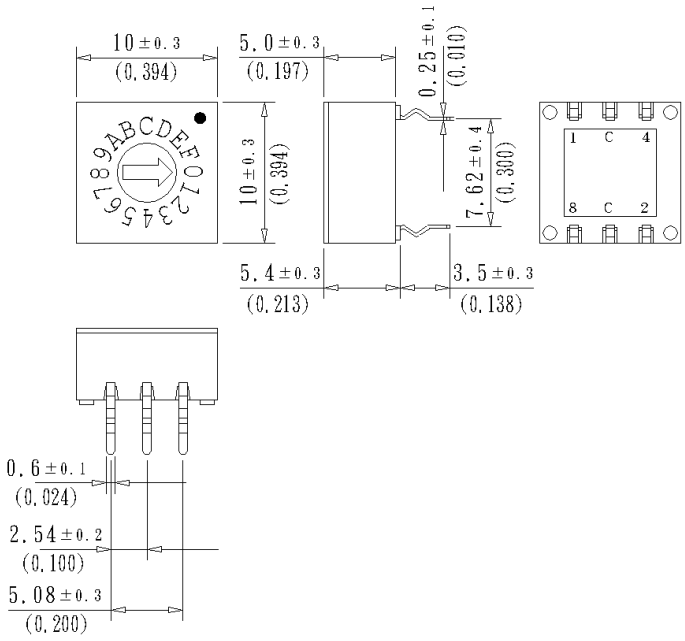


■ INTRODUTION to ECE ROTARY DIP SWITCH

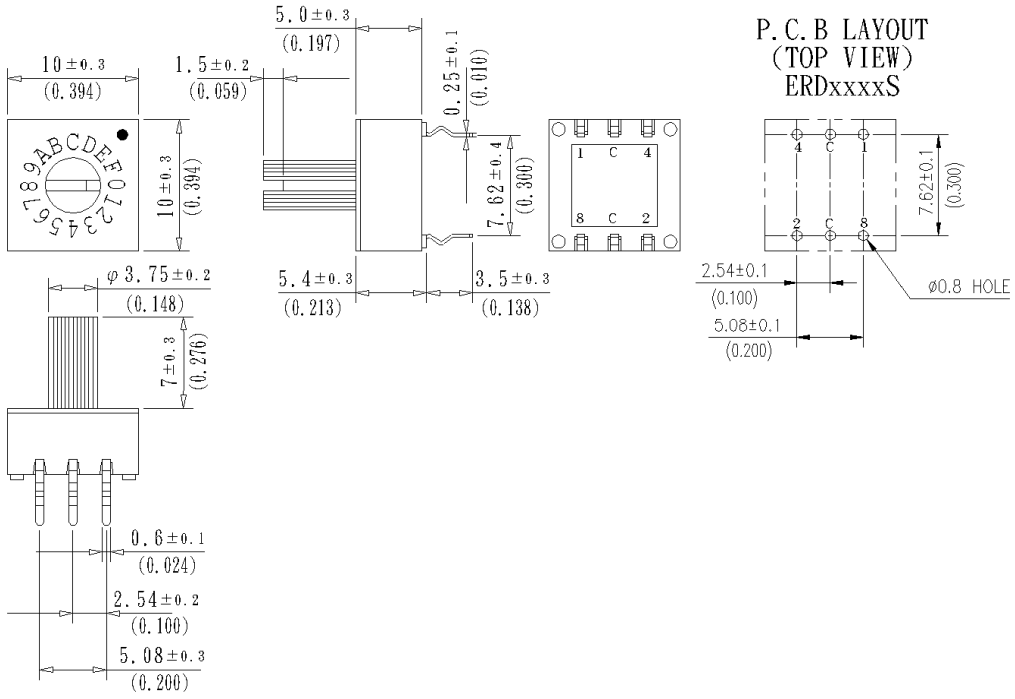
SIZE	POSITIONS	CODE	PIN OUT	ROTOR	TYPE	PART NUMBER
10x10	8,10,16	REAL, COMPLEMENT	3:3	FLAT, SHAFT	STANDARD	ERD1xxxS,ERD2xxxS
					RIGHT ANGLE	ERD1xxxR/F,ERD2xxR/F
				FLAT	SMT	ERD1xxxM
					SMT IN T&R	ERD1xxxD
			1:4	FLAT, SHAFT	STANDARD	ERD4xxxS,ERD5xxxS
					RIGHT ANGLE	ERD4xxxR/F,ERD5xxxR/F
				FLAT	SMT	ERD4xxxM
					SMT IN T&R	ERD4xxxD

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

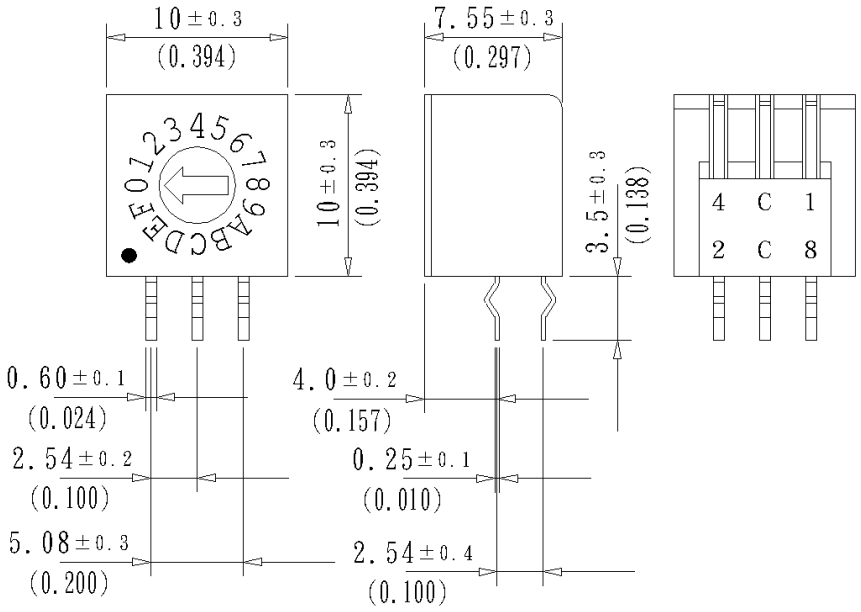
ERD1xxxS Flat Type



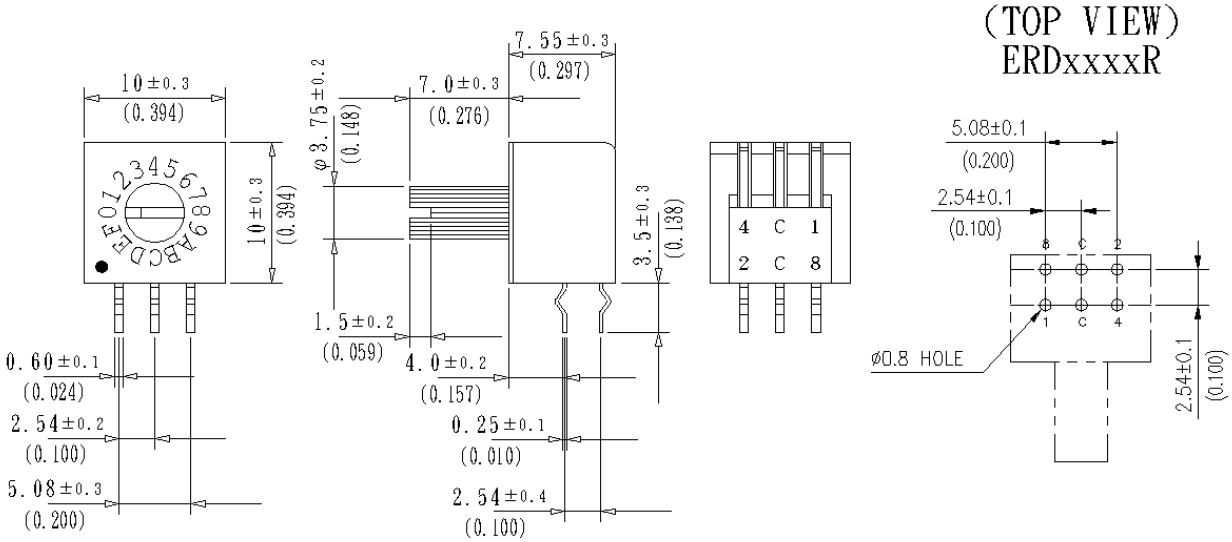
ERD2xxxS Shaft Type



ERD1xxxR Flat Type

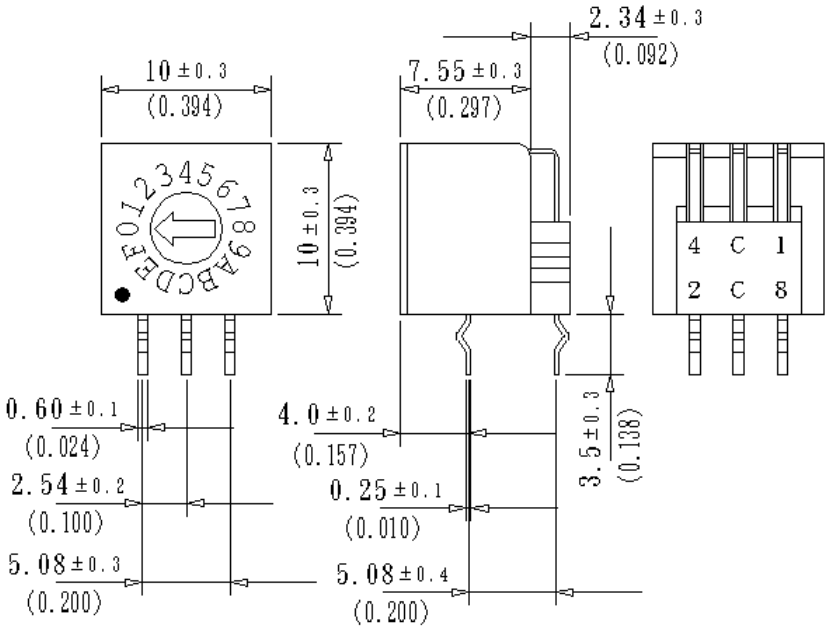


ERD2xxxR Shaft Type

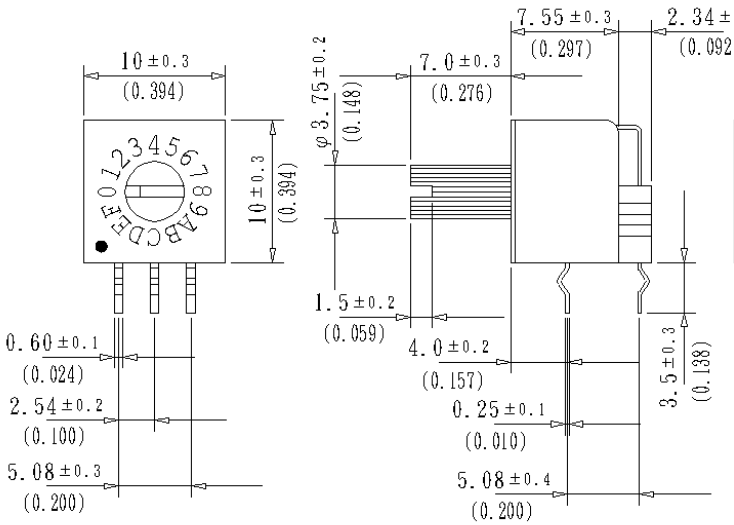


P.C.B. LAYOUT (TOP VIEW) ERDxxxxR

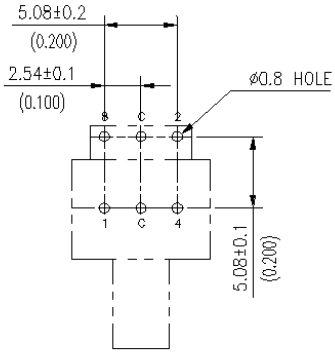
ERD1xxxF Flat Type



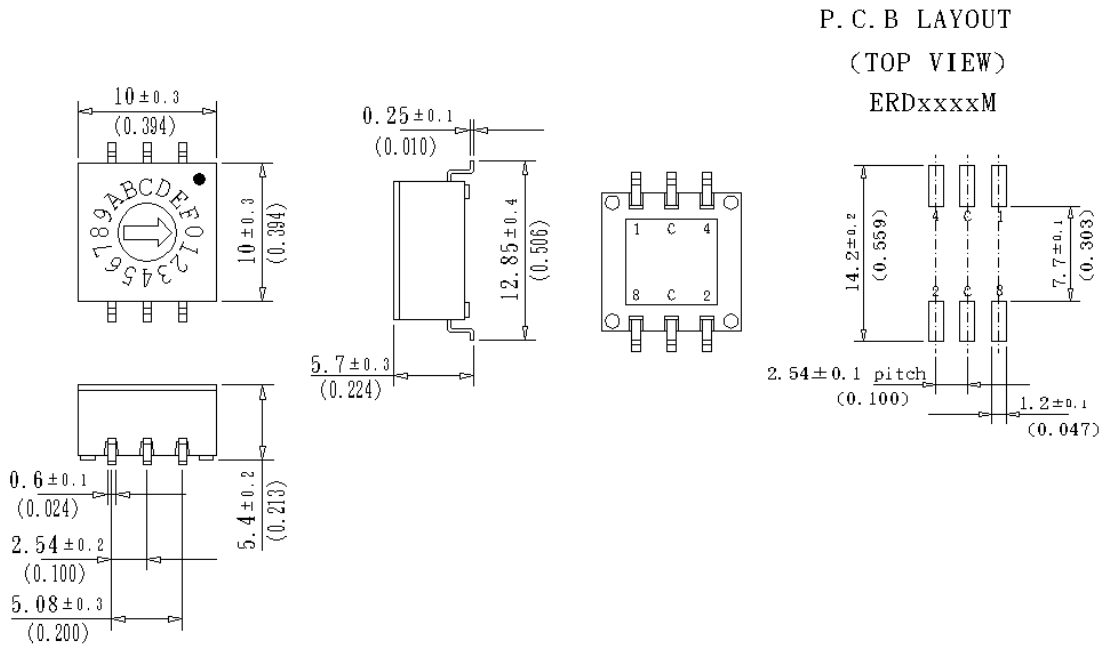
ERD2xxxF Shaft Type



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

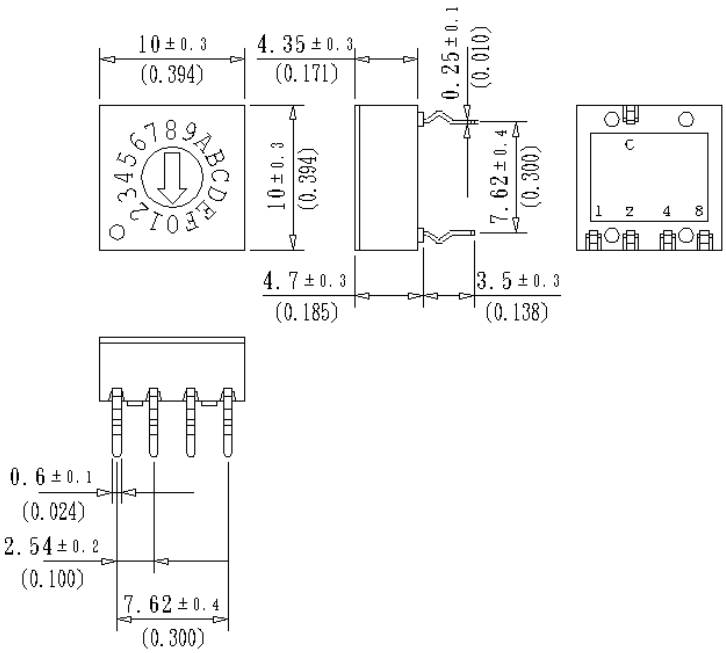


ERD1xxxM Flat Type

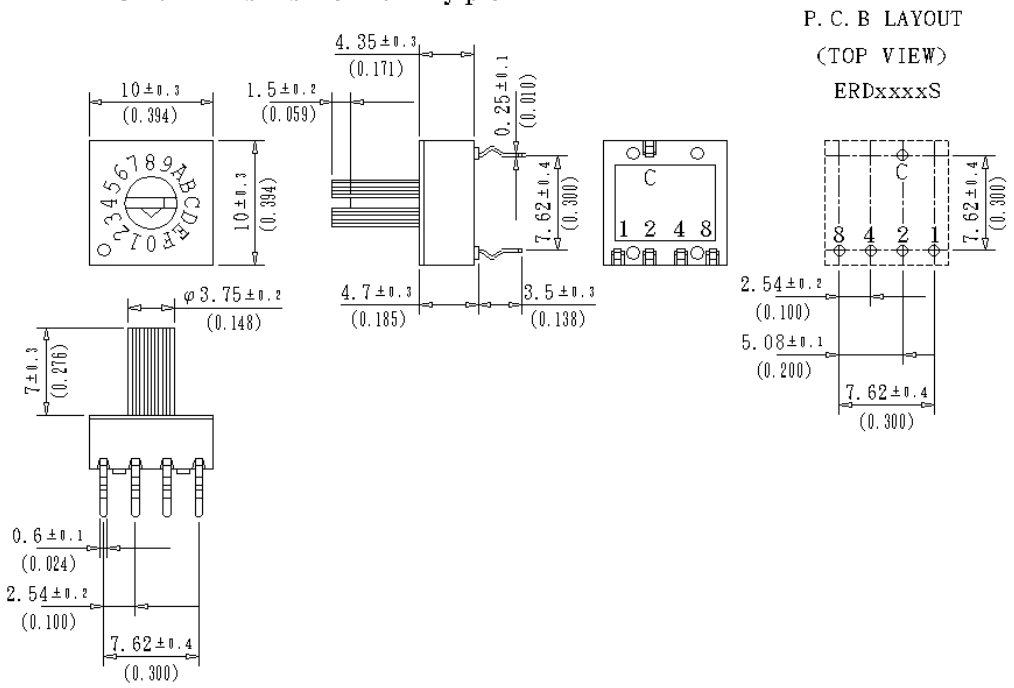


■ DIMENSIONS AND CIRCUITRY UNIT:mm(inch) PIN OUT 1:4

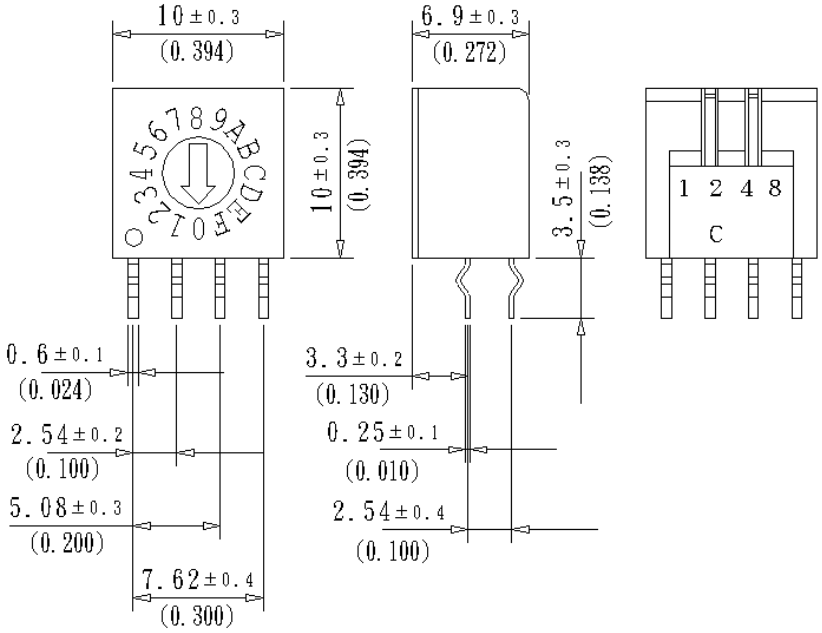
ERD4xxxS Flat Type



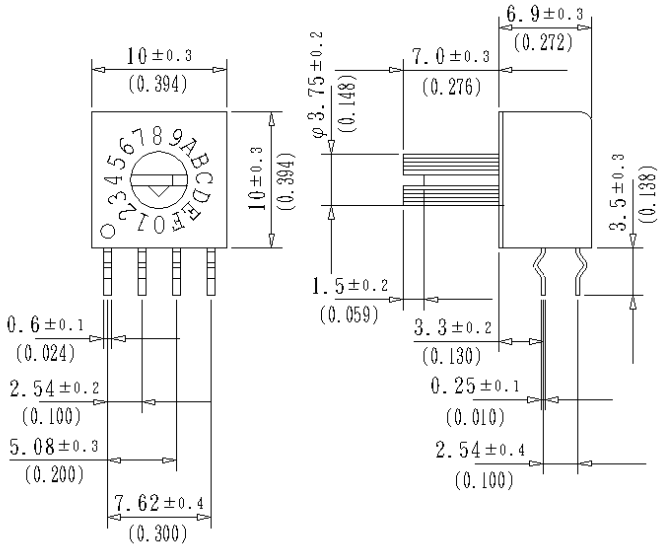
ERD5xxxS Shaft Type



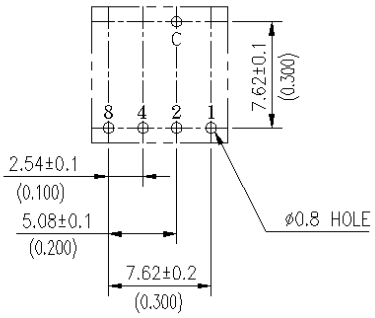
ERD4xxxR Flat Type



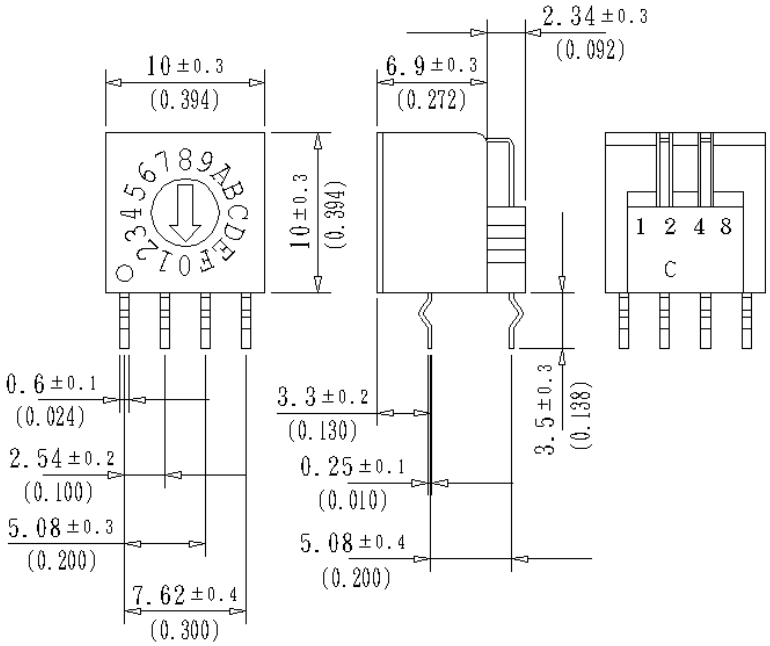
ERD5xxxR Shaft Type



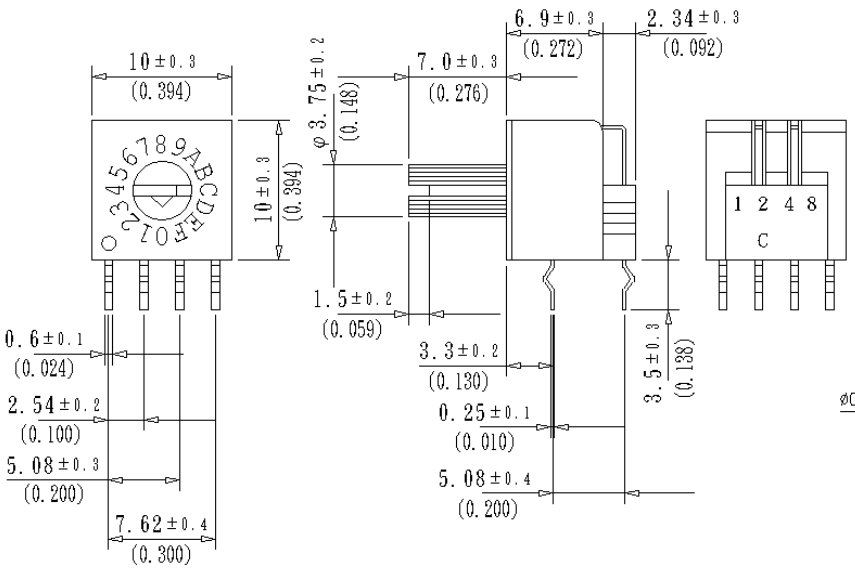
P.C.B LAYOUT (TOP VIEW) ERDxxxxR



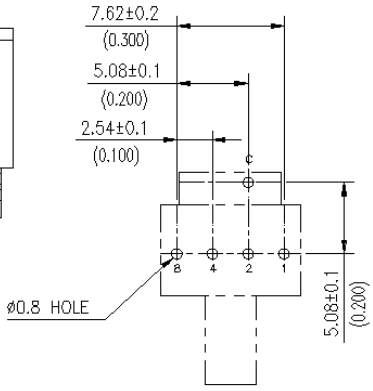
ERD4xxxF Flat Type



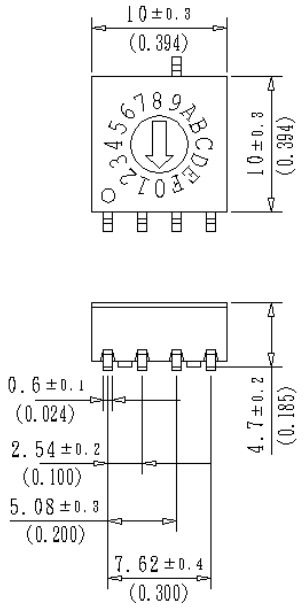
ERD5xxxF Shaft Type

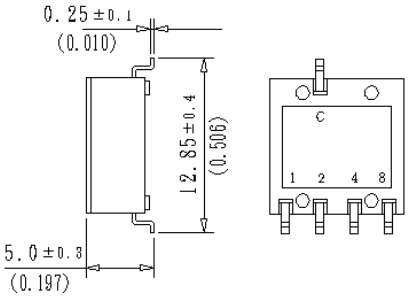
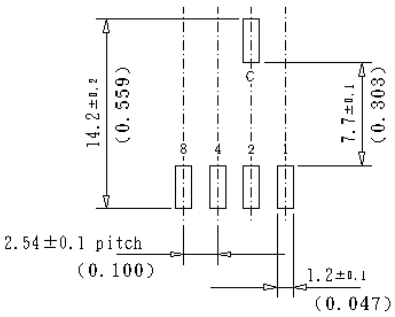


P.C.B LAYOUT (TOP VIEW) ERDxxxxF



ERD4xxxM Flat Type





P.C.B LAYOUT (TOP VIEW) ERDxxxxM