





ERD9 SERIES
10x10 SIZE SEALED CONSTRUCTION ROTARY TYPE

PIN OUT (3:3)			
 <p>ERD 9XXXM (SMT Type)</p>	 <p>ERD 9XXXS (Through Hole Type)</p>	 <p>ERD AXXXX (Shaft Type)</p>	 <p>ERD 9XXXF/R (Right Angle Type)</p>

FEATURES

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

APPLICATIONS

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

SPECIFICATIONS

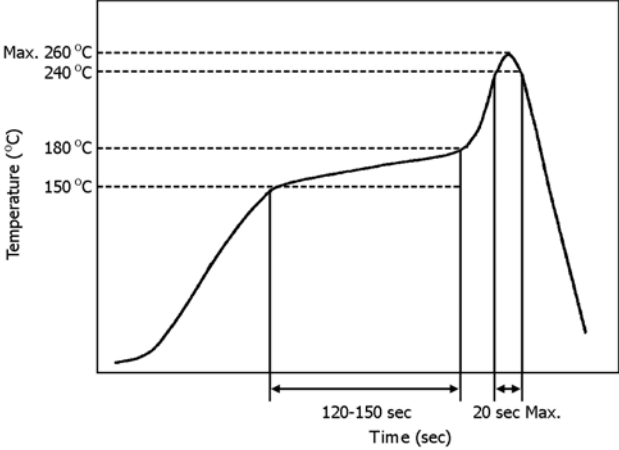
1.ELECTRICAL

● Contact rating	switching	150mA, 42VDC
	non-switching	200mA
● Contact resistance (initial)		80mΩ Max.
● Insulation resistance		100mΩ Min.
● Dielectric strength		250VAC Min. for 60 seconds

2.MECHANICAL AND ENVIRONMENTAL

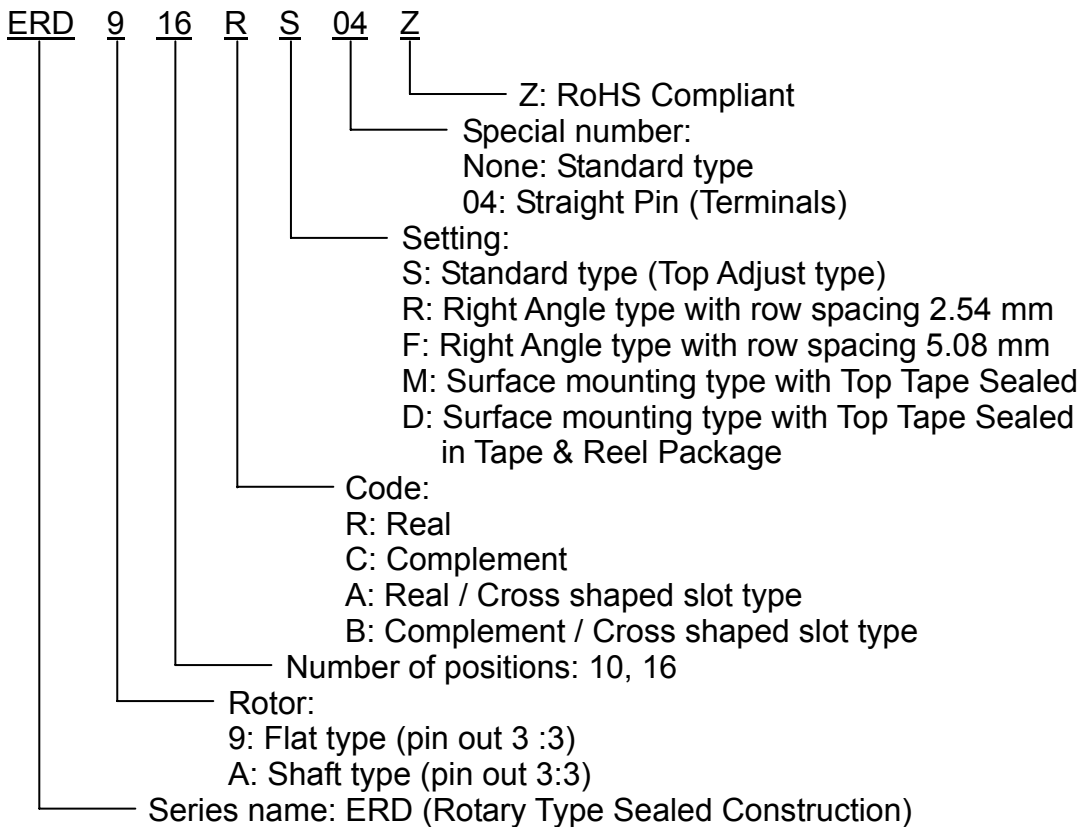
● Temperature rating	operating	-40°C to +85°C
	storage	-40°C to +85°C
● Operation force		500 gf-cm Max.

● Mechanical life	10,000 steps
● Vibration	10Hz-55Hz-10Hz for 6 Hrs.
● Solderability (for through hole type)	After flux 245±5°C for 5±1 seconds
● Resistance to soldering heat (for through hole type)	260±5°C for 5±1 seconds
● Reflow soldering heat for SMT type (reference only)	240°C for 20 seconds or less, peak temperature 260°C or less



The graph shows a reflow soldering temperature profile. The y-axis is Temperature (°C) with markers at 150, 180, 240, and Max. 260. The x-axis is Time (sec) with markers for 120-150 sec and 20 sec Max. The curve starts at a low temperature, rises to 150°C, then to 180°C, and finally peaks at 260°C before cooling down.

■ PART NUMBERING SYSTEM



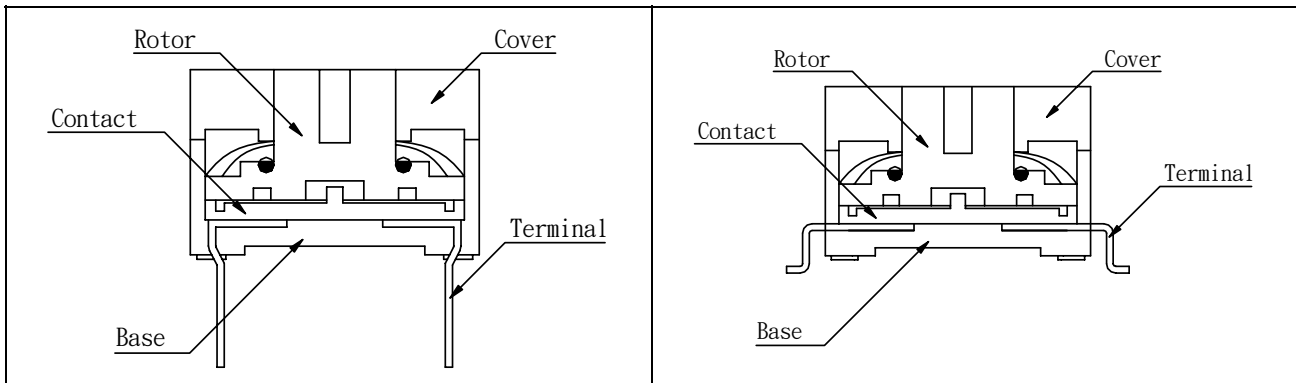


CODE

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

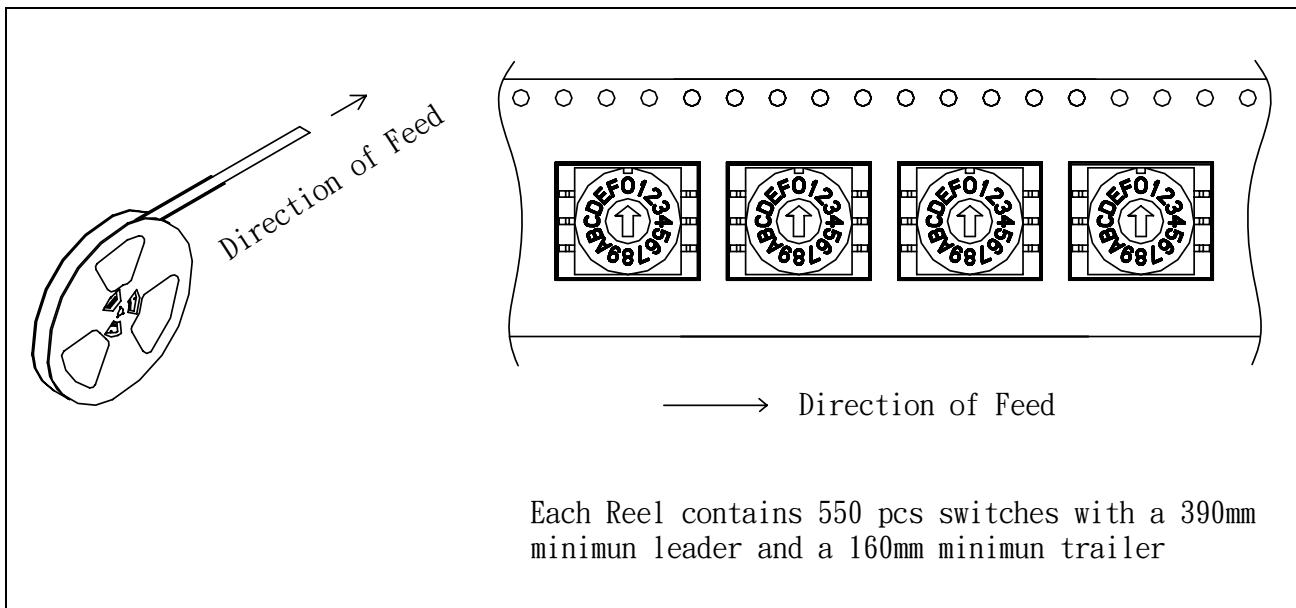
- ... Real Code
- Rotor color:
Gray (3:3)
- ... Complement Code
- Rotor color:
White (3:3)

CONSTRUCTION



PACKING

1. Tape & Reel Packaging (Per EIA STANDARD)



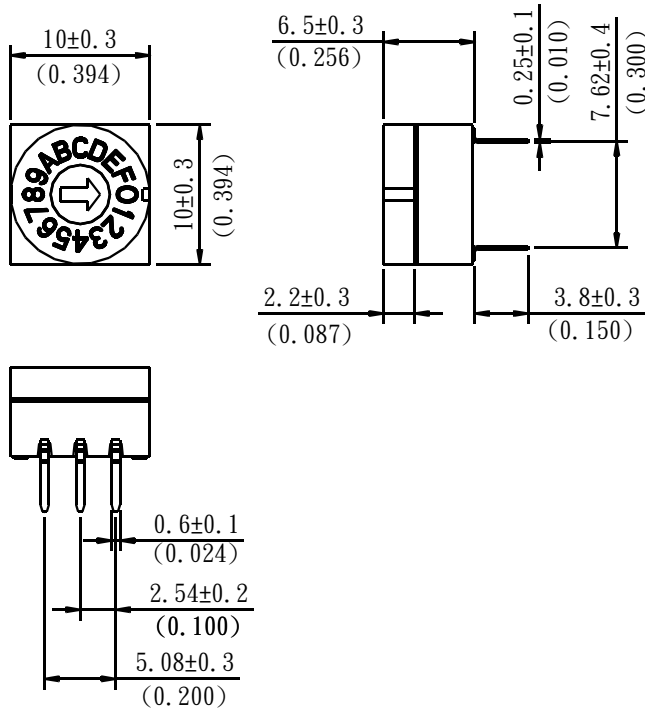


■ INTRODUCTION to ECE ROTARY DIP SWITCH

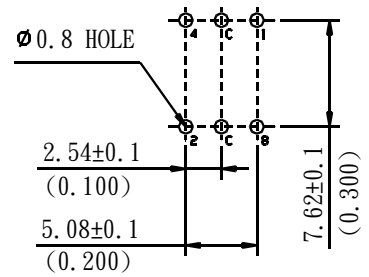
SIZE	POSITIONS	CODE	PIN OUT	ROTOR	TYPE	PART NUMBER
10x10	10,16	REAL, COMPLEMENT	3:3	FLAT, SHAFT	STANDARD	ERD9xxxS, ERDAxxxS
					RIGHT ANGLE	ERD9xxxR/F, ERDAxxxR/F
				FLAT	SMT	ERD9xxxM, ERDAxxxM
					SMT IN T&R	ERD9xxxD

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

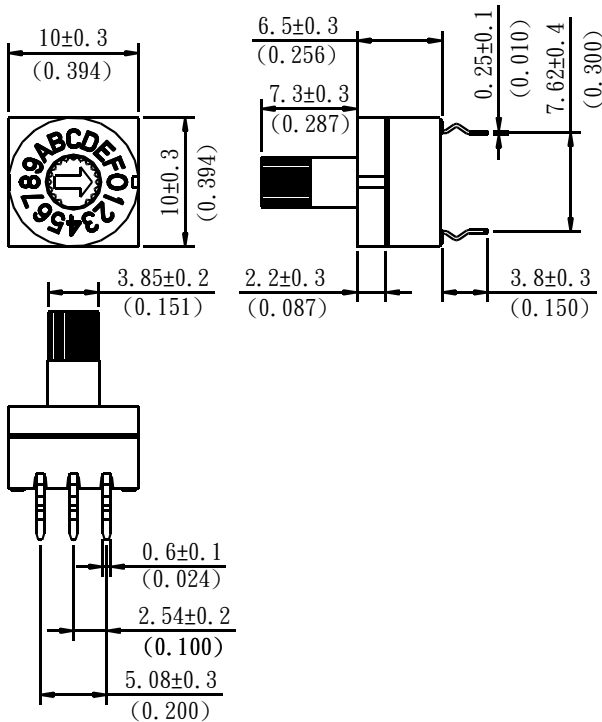
ERD9XXS04Z Flat Type



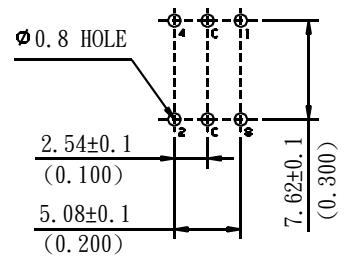
P. C. B. LAYOUT (TOP VIEW)



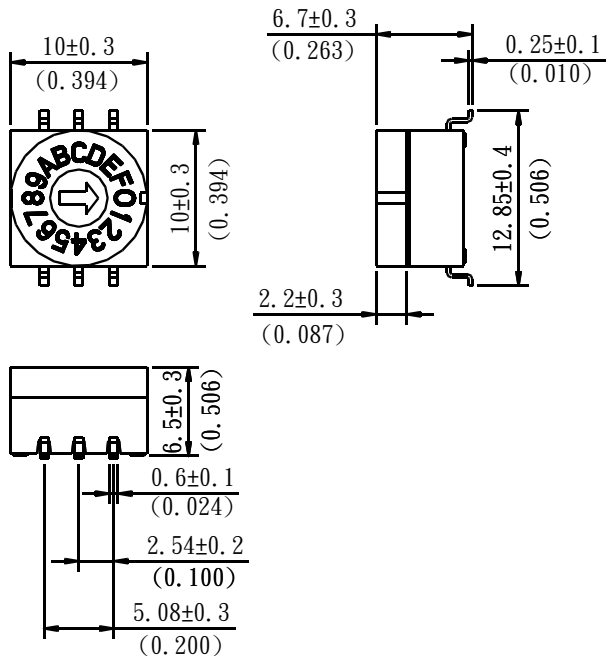
ERDAXXSZ Shaft Type



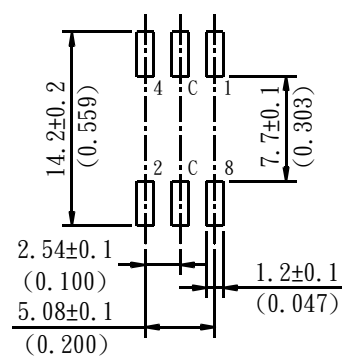
P. C. B. LAYOUT (TOP VIEW)



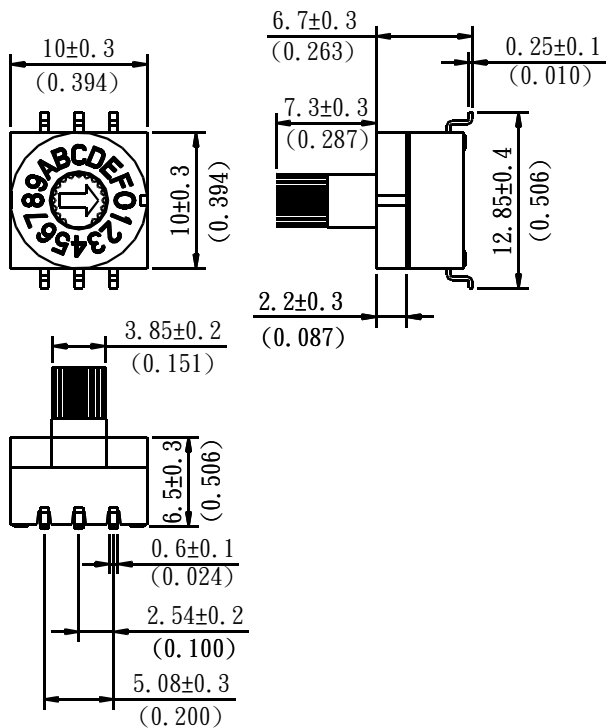
ERD9XXXMZ Flat Type



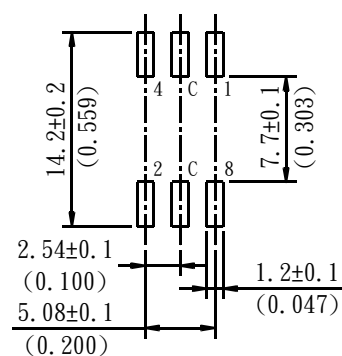
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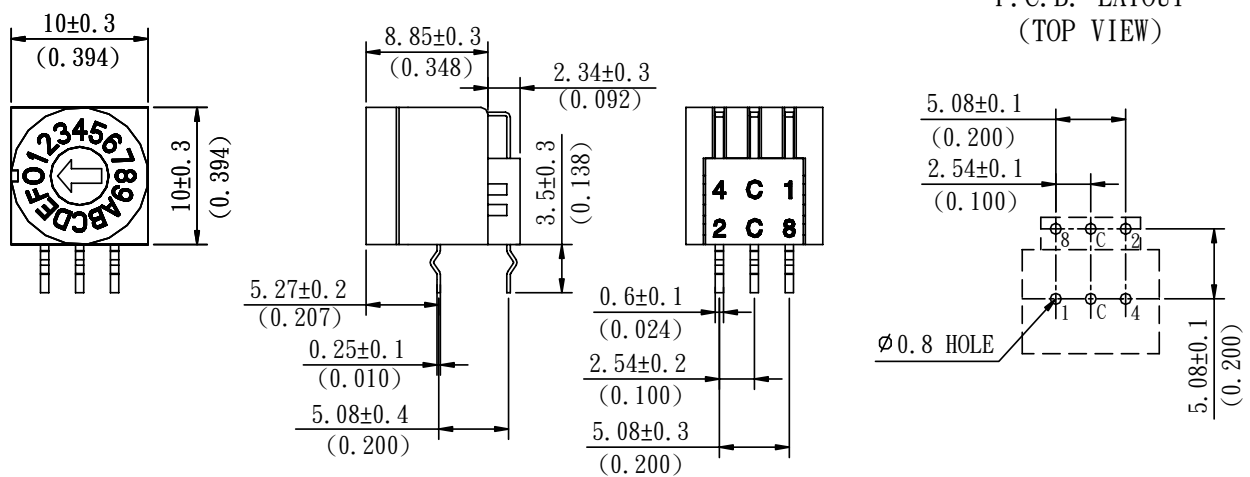
ERDAXXXMZ Shaft Type



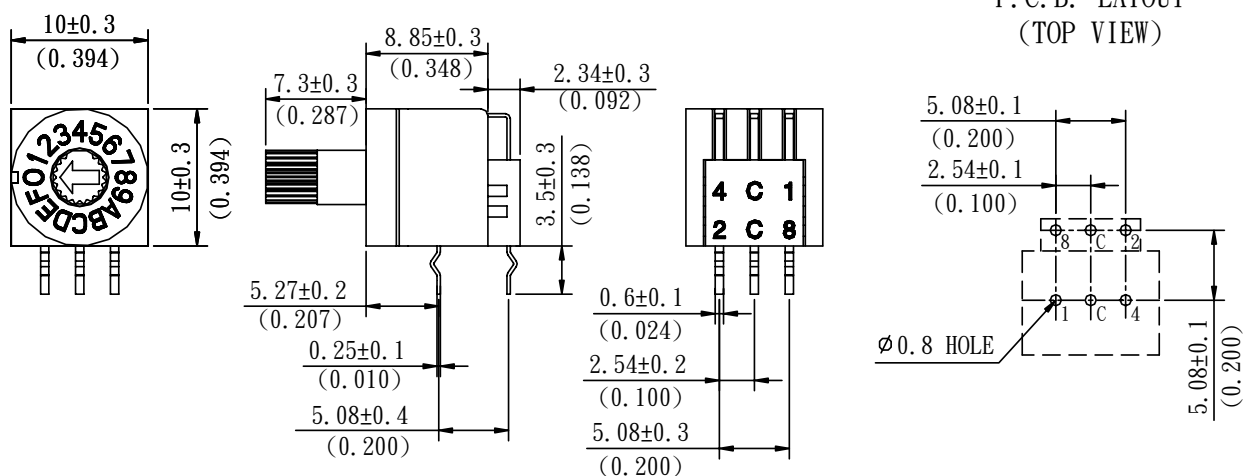
P. C. B. LAYOUT (TOP VIEW)



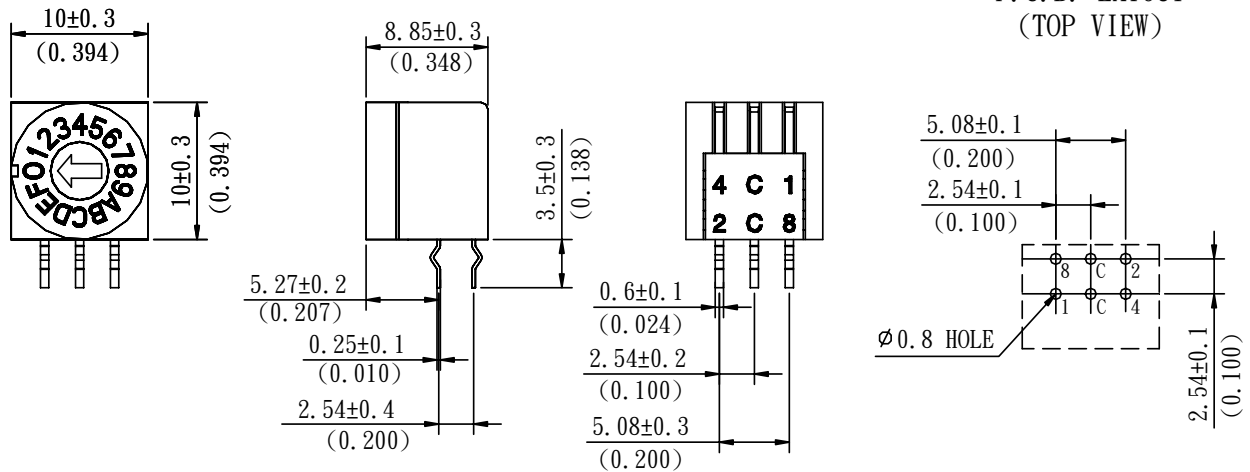
ERD9XXXFZ Flat Type



ERDAXXXFZ Shaft Type



ERD9XXXRZ Flat Type



ERDAXXXRZ Shaft Type

