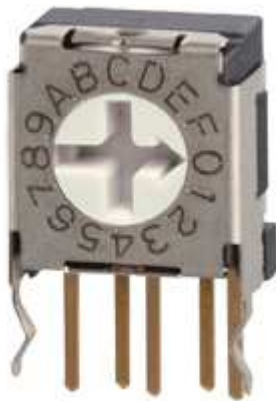


ERD7 SERIES**MINIATURE SIZE 7×3 ROTARY SWITCH****SMT****Through hole reflow (THR)
Through hole (TH)****Right Angle (RA)****Right Angle (RA)
Through hole (TH)****Right Angle (RA)
SMT****J-hook
SMT****■ FEATURES**

- Low profile of 3.0mm. Outer dimension 7.2mm square
- Supply various switch codes, include Gray code, Reel and Complement code
- Gold plated contact area ensures reliable electric continuity for micro current
- Pin-out is compatible with most of current equivalents
- All plastics are UL 94V-0 grade fire retardant
- RoHS Compliant
- Halogen Free series available

■ APPLICATIONS

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



■ SPECIFICATIONS

1.ELECTRICAL

● Contact rating	Max switching load	100mA, 5VDC
	Min switching load	10μA, 5VDC
	Max non-switching load	100mA, 24VDC
● Contact resistance (initial)		200mΩ Max
● Insulation resistance		100MΩ Min at 100VDC
● Dielectric strength		250VAC rms. for 60 s

2.MECHANICAL and ENVIRONMENTAL

● Temperature rating	operation	-40°C to +85°C
	storage	-40°C to +85°C
● Operation force		510gf-cm Max
● Operation life		10,000 detents Min
● Vibration		10Hz-55Hz-10Hz for 6Hrs
● Solderability		After flux 245°C±5°C for 5±1 s
● Resistance to soldering heat	solder bath	260±5°C for 5±1 s
	solder reflow	Peak temperature 260°C Max

3.SOLDERING PROCESS

● Solder iron	Max 2 s / 350°C
● Reflow soldering heat for SMT type (reference only)	



Switch

CODE

Real / Complement 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

○.....Complement Code

Gray Code

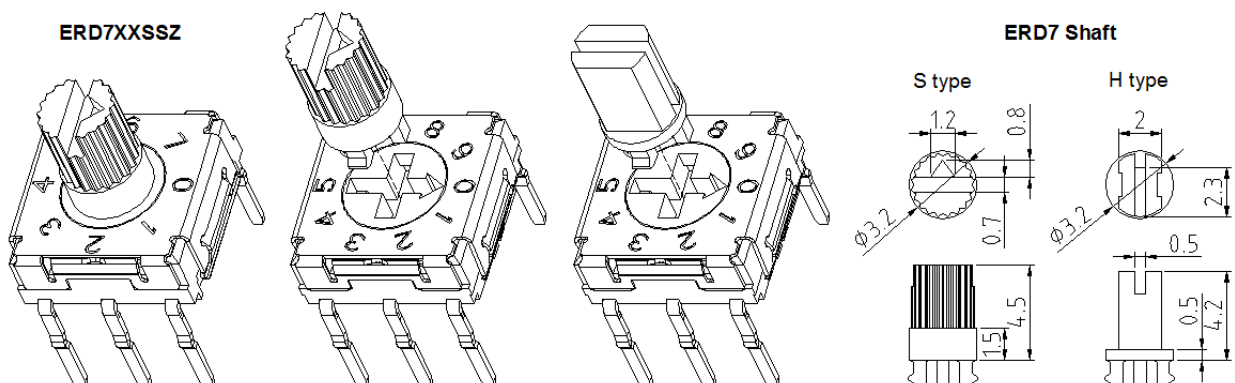
PIN NO.	POSITIONS															
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
1		●	●			●	●			●	●			●	●	
2			●	●	●	●					●	●	●	●		
4					●	●	●	●	●	●	●	●				
8									●	●	●	●	●	●	●	●

●.....Gray Code

OPTIONS

1.Special marking available

2.Shaft available (for cross shaped slot type only) 418-90500(S type)
418-90900(H type)



■ PART NUMBERING SYSTEM

ERD7 08 A S XX Z

Z: RoHS Compliant

H: Halogen Free series

Special number:

None: Center Common terminal pins location (3:3 pin out)

Center Output "8" terminal pin location (3:2, 5:0 pin out)

06: Side Common terminal pins location (3:3 pin out)

Center Output "1" terminal pin location (3:2, 5:0 pin out)

S: Spindle

H: Slotted spindle

Setting:

S: Standard type with row spacing 7.62mm

F: Right Angle type with row spacing 5.08mm

R: Right Angle type with row spacing 2.54mm

H: Right Angle type with row spacing 1.27mm

M: Surface Mounting type

D: "M" type in Tape & Reel Package

J: Right Angle with Surface Mounting type and side support terminal

T: "J" type in Tape & Reel Package

L: Right Angle with Surface Mounting type and forward support terminal

U: "L" type in Tape & Reel Package

C: J-hook with Surface Mounting type

E: "C" type in Tape & Reel Package

Code:

R: Real code / Arrow shaped slot type

A: Real code / Cross shaped slot type

C: Complement code / Arrow shaped slot type

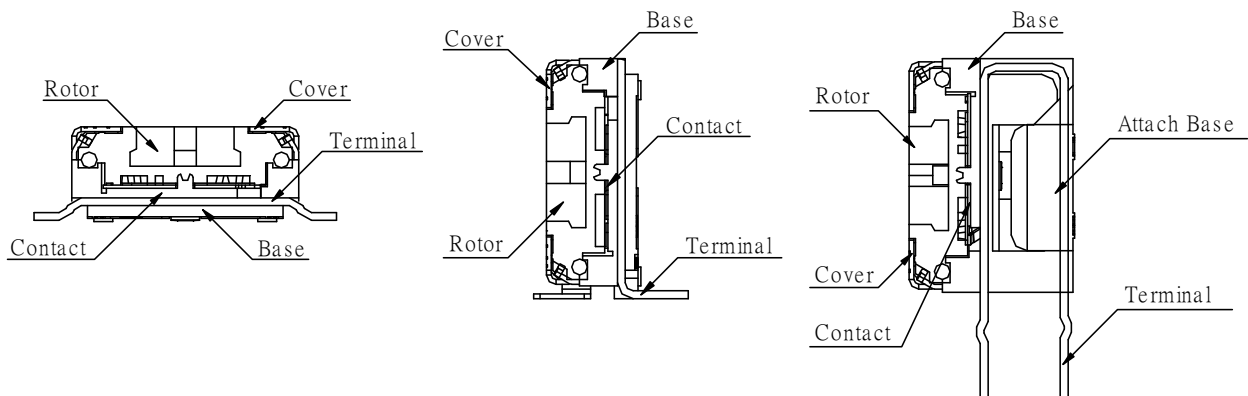
B: Complement code / Cross shaped slot type

G: Gray code / Cross shaped slot type

Number of Positions: 8, 10, 16

Series name: ERD7: Miniature size (7.2×7.2mm²) Rotary DIP Switch

■ CONSTRUCTION

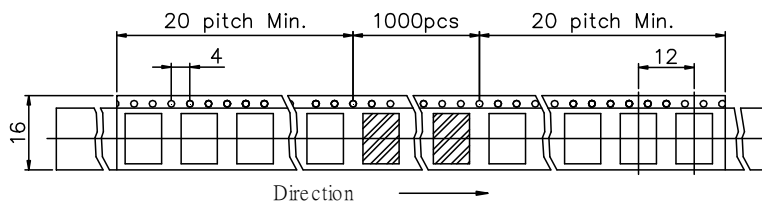


■ PACKING

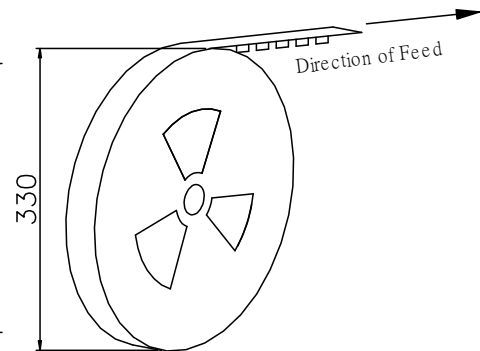
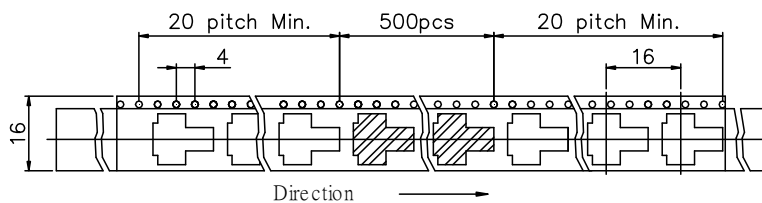
1. PACKING METHOD

Type \ Package	Number of pcs. Per IC Tube	Number of pcs. Per Reel
Top Adjust Type	70	1000
Side Adjust Type	70	500

ERD7XXXDZ / ERD7XXXEZ



ERD7XXXTZ / ERD7XXXUZ

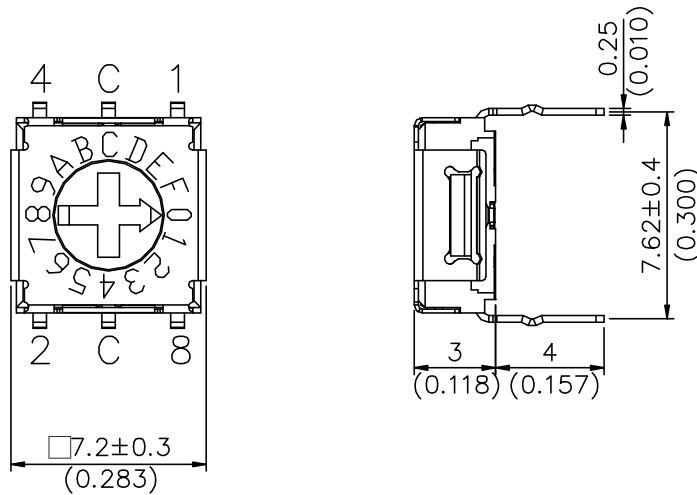


■ QUICK SELECTION GUIDE

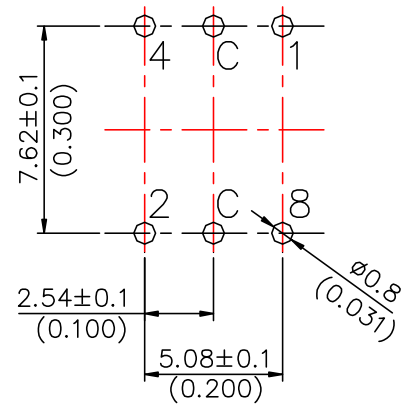
SIZE	POSITIONS	CODE	SETTING POSITION	PIN OUT	SHAPE OF TERMINAL	PART NUMBER
7×7	8,10,16	REAL COMPLEMENT GRAY	TOP SETTING	3:3	STANDARD	ERD7XXXSZ
					SMT	ERD7XXXMZ
					SMT IN T&R	ERD7XXXDZ
					J-HOOK WITH SMT	ERD7XXXCZ
					J-HOOK WITH SMT IN T&R	ERD7XXXEZ
			SIDE SETTING	3:3	RIGHT ANGLE	ERD7XXXRZ ERD7XXXFZ
				3:2	RIGHT ANGLE	ERD7XXXHZ
				5:0	RIGHT ANGLE WITH SMT	ERD7XXXJZ ERD7XXXLZ
					RIGHT ANGLE WITH SMT IN T&R	ERD7XXXTZ ERD7XXXUZ

DIMENSIONS AND CIRCUITRY

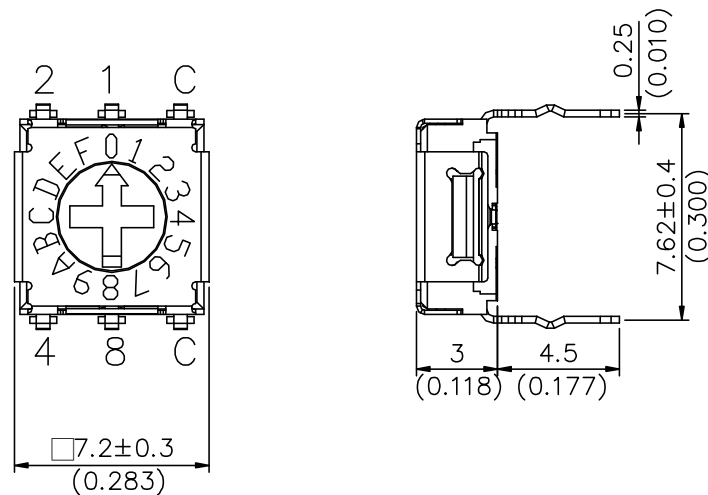
ERD7XXXSZ SERIES



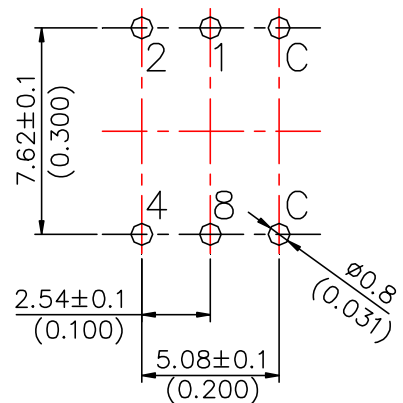
P.C.B. LAYOUT



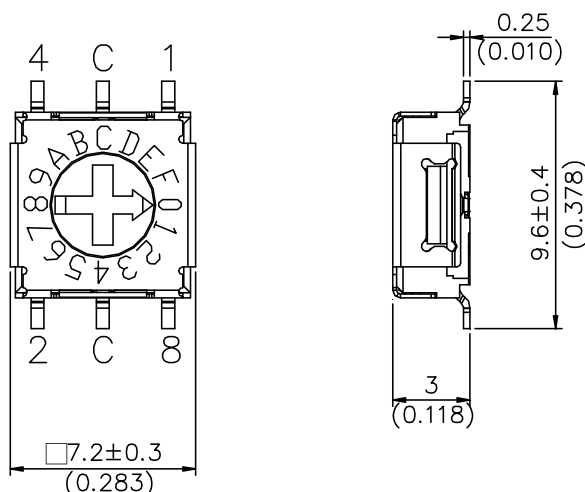
ERD7XXXS06Z SERIES



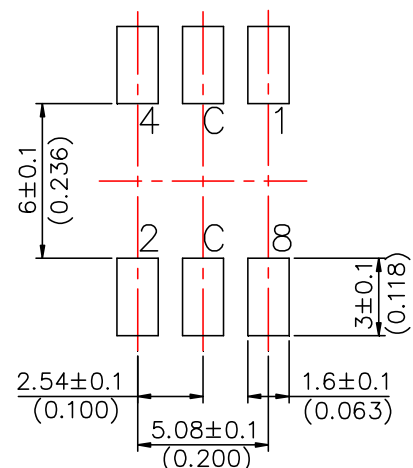
P.C.B. LAYOUT



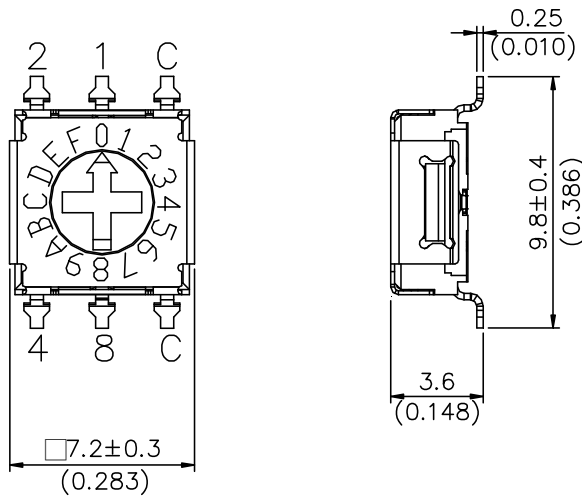
ERD7XXXMZ SERIES



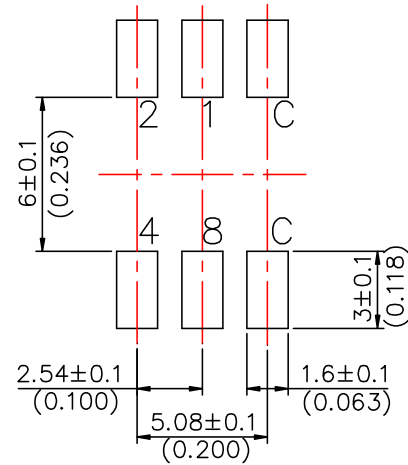
P.C.B. LAYOUT



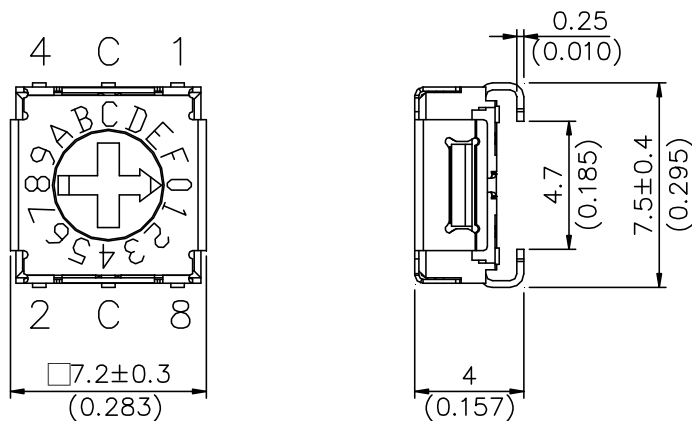
ERD7XXXM06Z SERIES



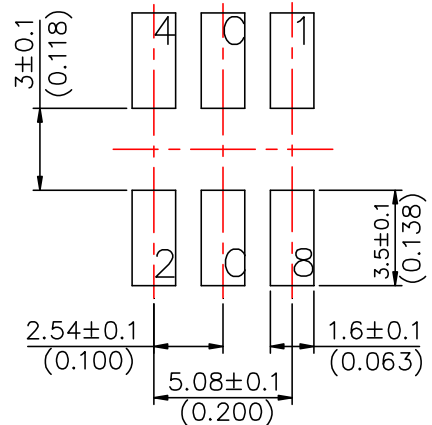
P.C.B. LAYOUT



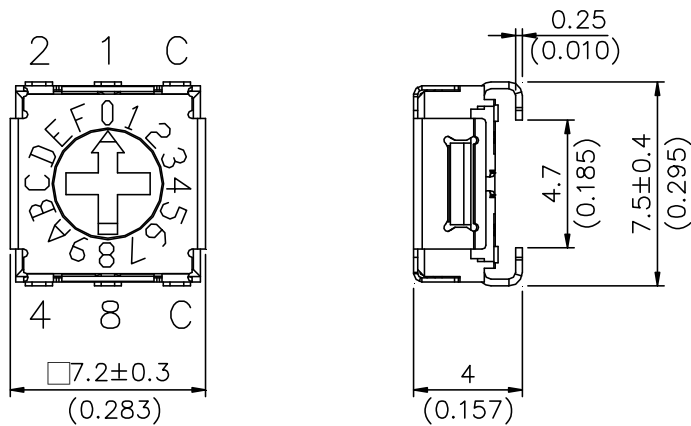
ERD7XXXCZ SERIES



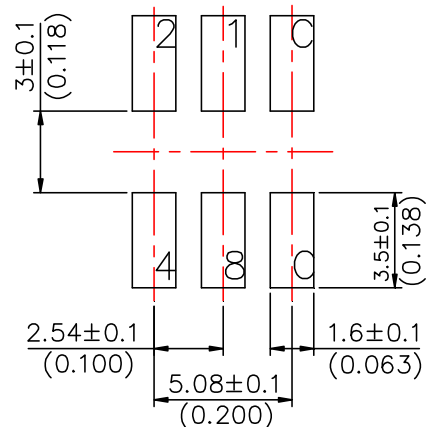
P.C.B. LAYOUT



ERD7XXXC06Z SERIES

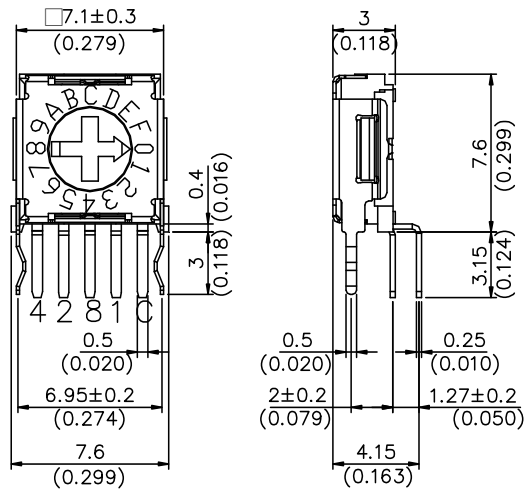


P.C.B. LAYOUT

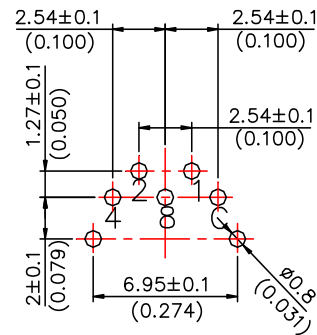




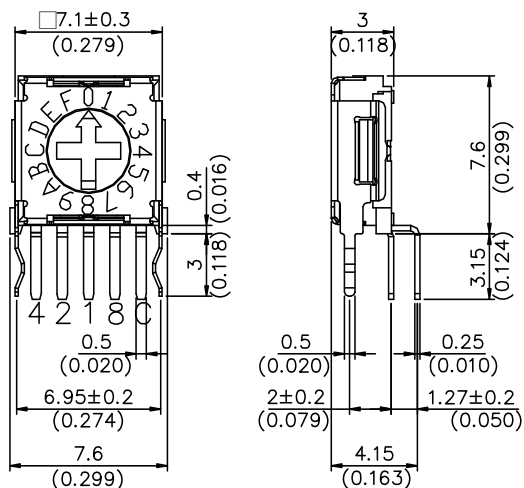
ERD7XXHZ SERIES



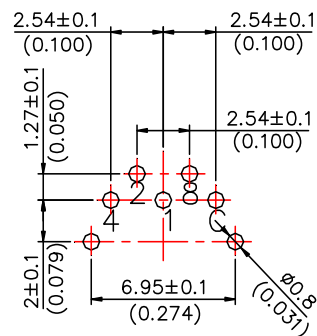
P.C.B. LAYOUT



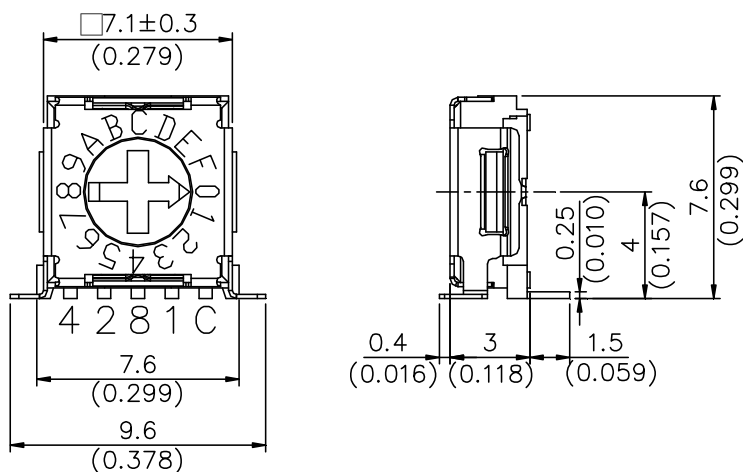
ERD7XXH06Z SERIES



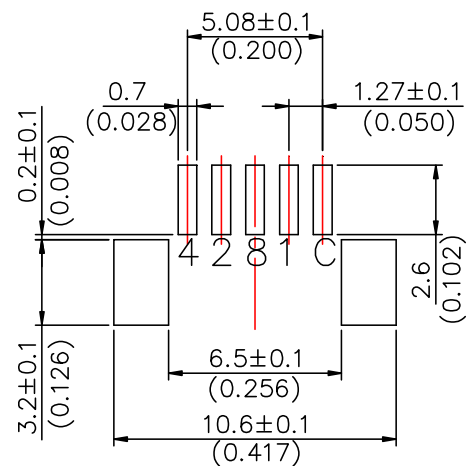
P.C.B. LAYOUT



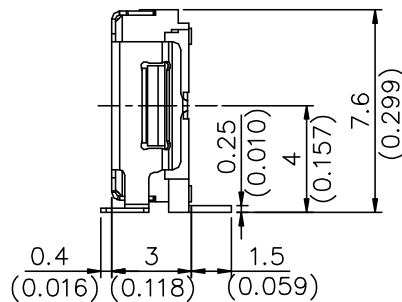
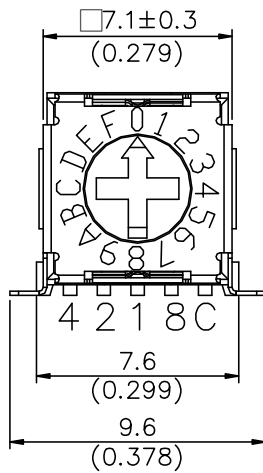
ERD7XXXJZ SERIES



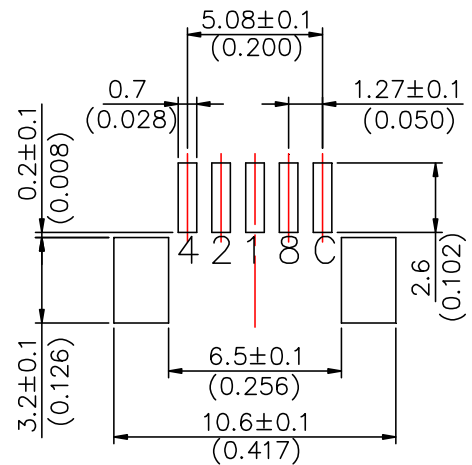
P.C.B. LAYOUT



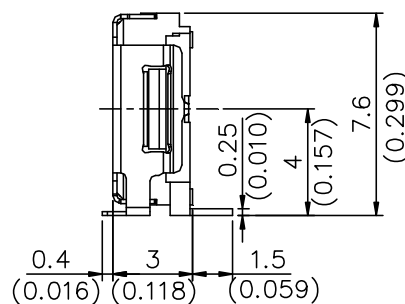
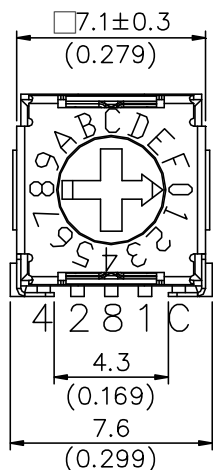
ERD7XXXJ06Z SERIES



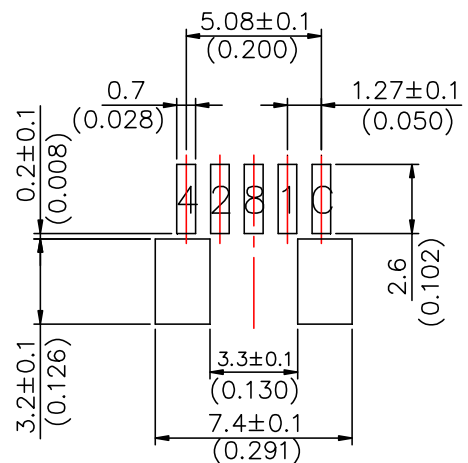
P.C.B. LAYOUT



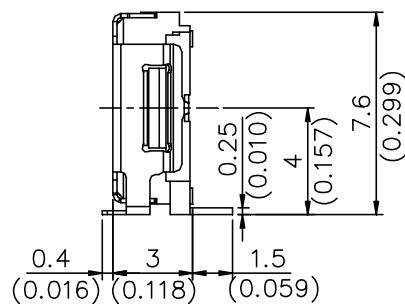
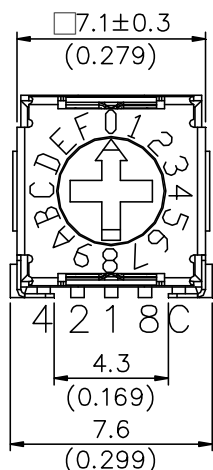
ERD7XXXLZ SERIES



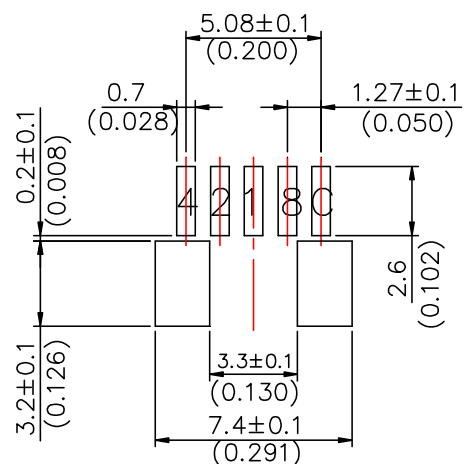
P.C.B. LAYOUT



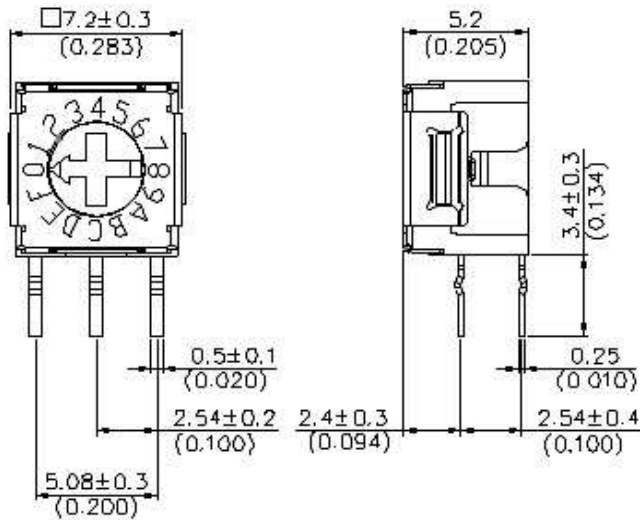
ERD7XXXL06Z SERIES



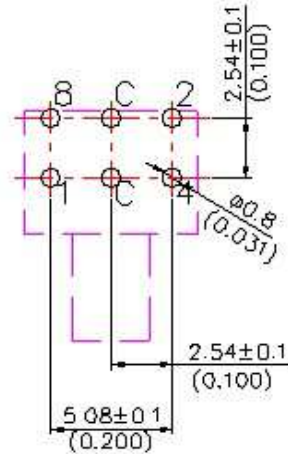
P.C.B. LAYOUT



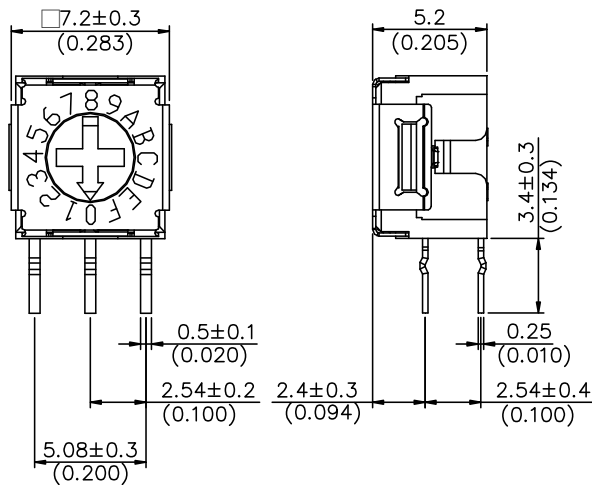
ERD7XXXRZ SERIES



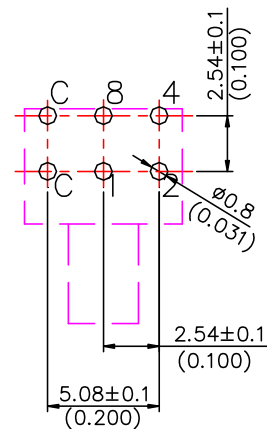
P.C.B. LAYOUT



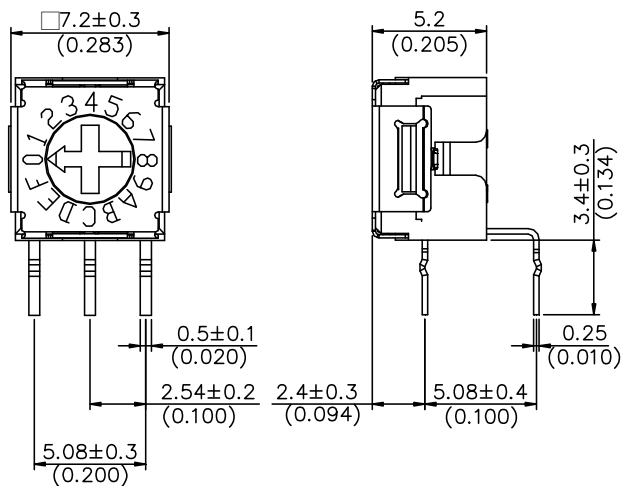
ERD7XXXR06Z SERIES



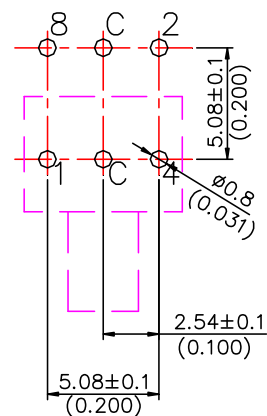
P.C.B. LAYOUT



ERD7XXXFZ SERIES

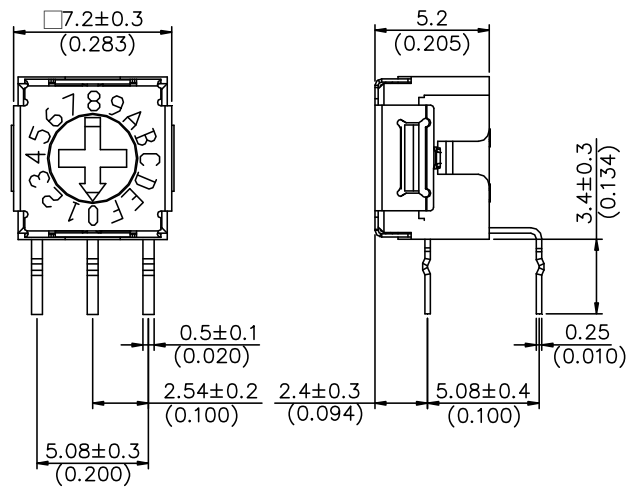


P.C.B. LAYOUT

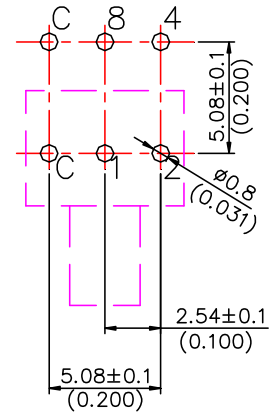




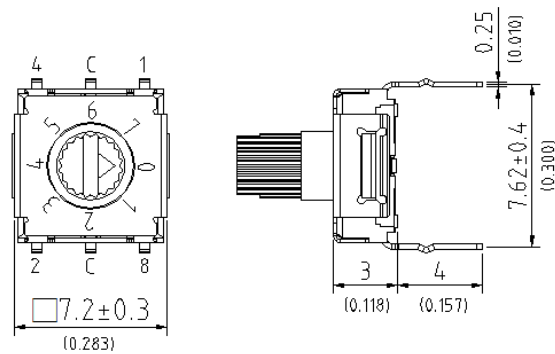
ERD7XXF06Z SERIES



P.C.B. LAYOUT



ERD7XXSSZ SERIES



P.C.B. LAYOUT

