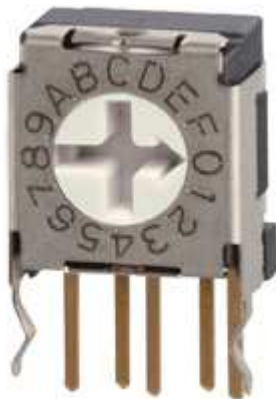


ERD7 SERIES**MINIATURE SIZE 7×3 ROTARY SWITCH****SMT****Through hole reflow (THR)
Through hole (TH)****Right Angle (RA)****Right Angle (RA)
Through hole (TH)****Right Angle (RA)
SMT****J-hook
SMT****FEATURES**

- 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
- Ingress Protection Code: IP67

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)	Temperature (°C) Time (s) Preheating 150 °C Typical 150°C To 180°C (ca. 90s To 120s) 220 °C 245 °C 180 °C ca. 25s...45s > 220°C



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

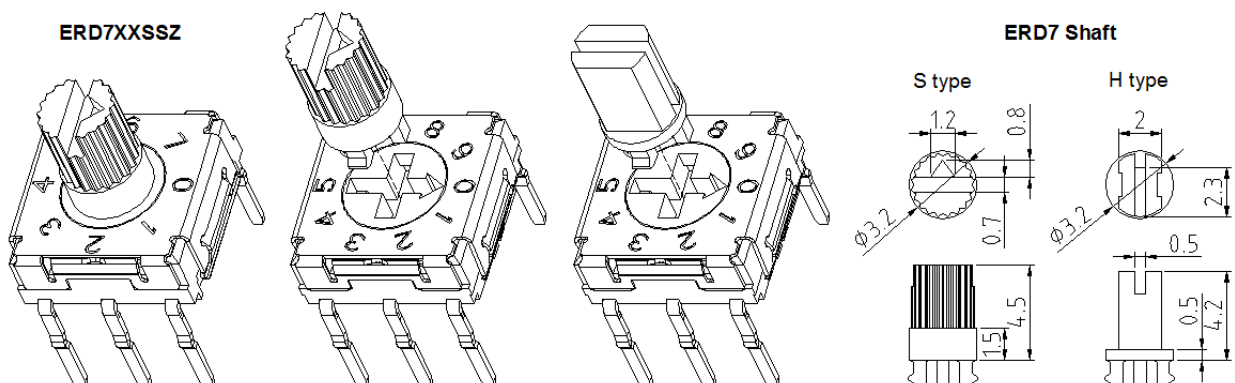
PIN NO.	POSITIONS															
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
1		●	●			●	●			●	●			●	●	
2			●	●	●	●					●	●	●	●		
4					●	●	●	●	●	●	●	●				
8									●	●	●	●	●	●	●	●

●.....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

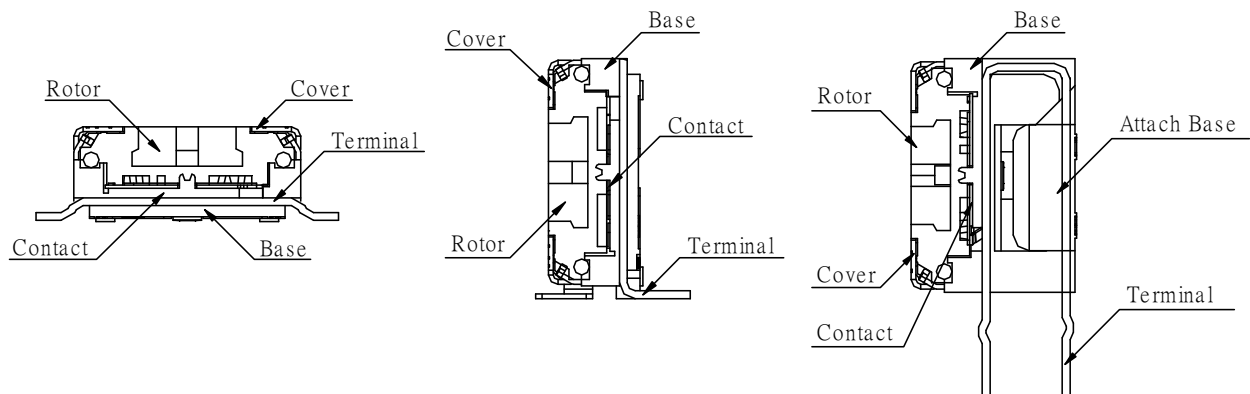
B: Complement code / Cross shaped slot type

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

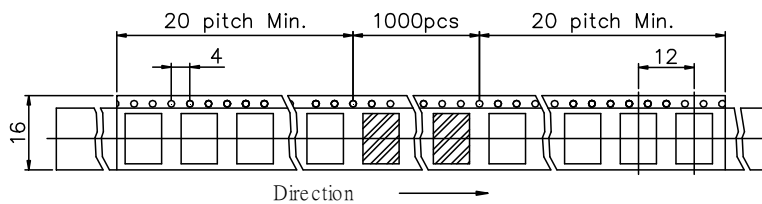


■ PACKING

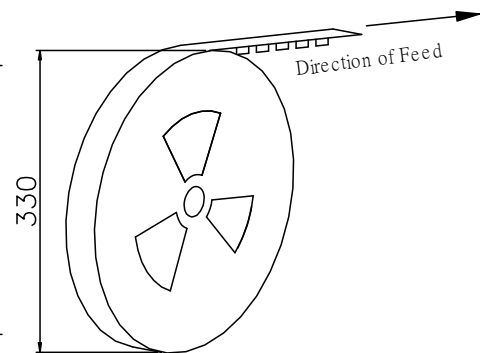
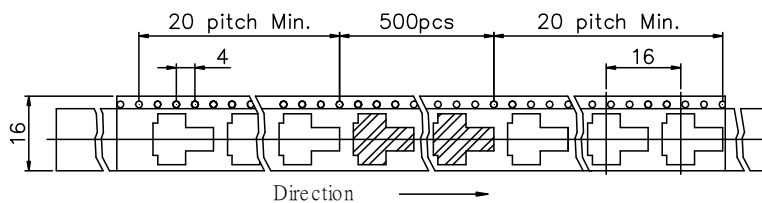
1. PACKING METHOD

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

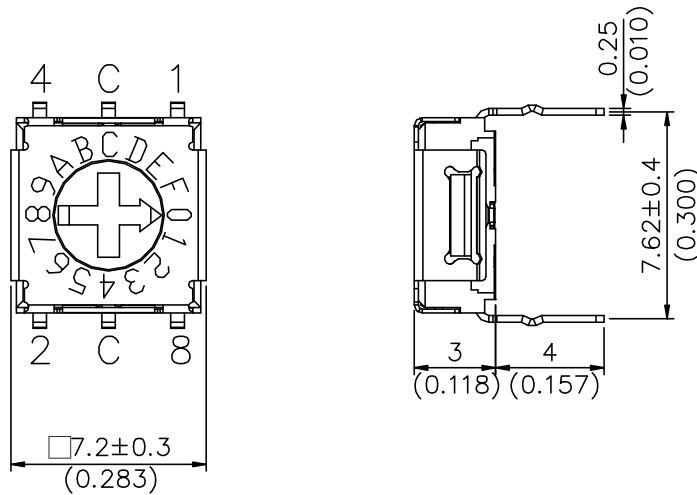


■ QUICK SELECTION GUIDE

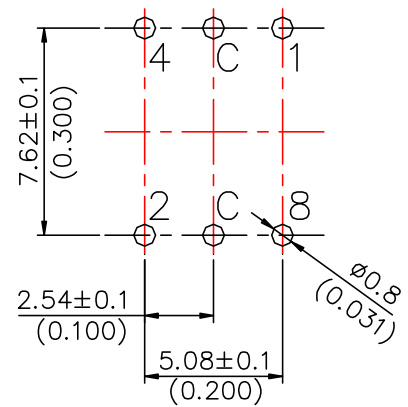
SIZE	POSITIONS	CODE	SETTING POSITION	PIN OUT	SHAPE OF TERMINAL	PART NUMBER
7×7	8,10,16	REAL COMPLEMENT GRAY	TOP SETTING	3:3	STANDARD	ERD7XXXSZ
					SMT	ERD7XXXMZ
					SMT IN T&R	ERD7XXXDZ
					J-HOOK WITH SMT	ERD7XXXCZ
					J-HOOK WITH SMT IN T&R	ERD7XXXEZ
			SIDE SETTING	3:3	RIGHT ANGLE	ERD7XXXRZ ERD7XXXFZ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

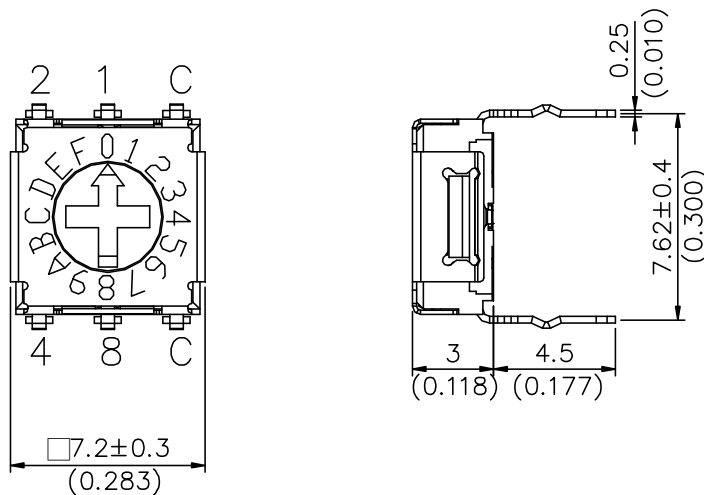
ERD7XXXSZ SERIES



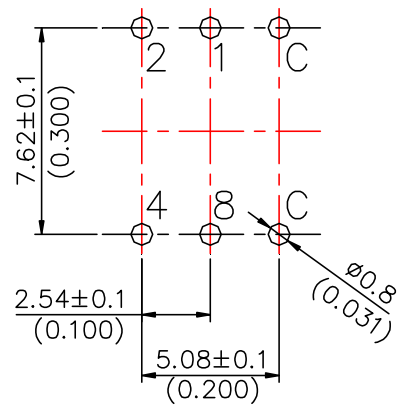
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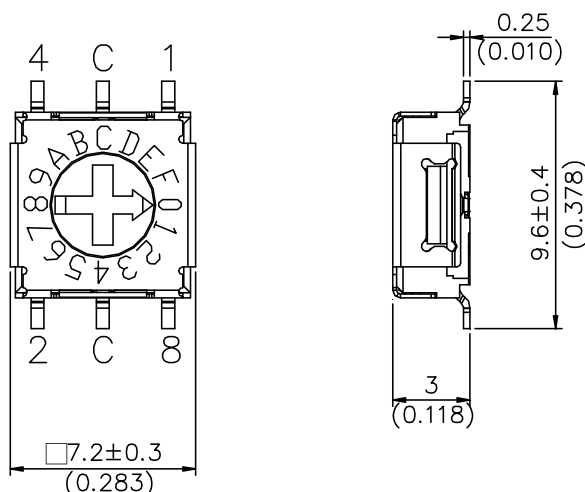
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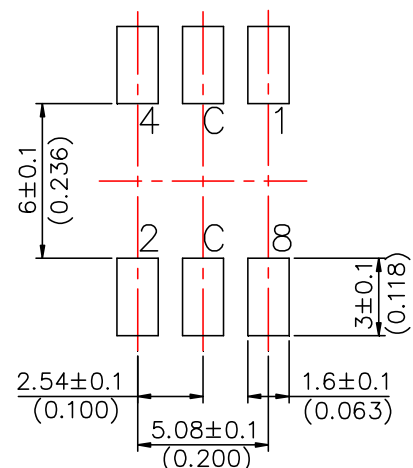
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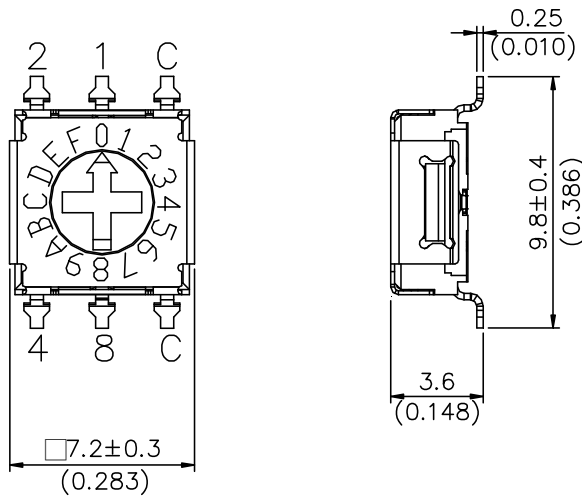
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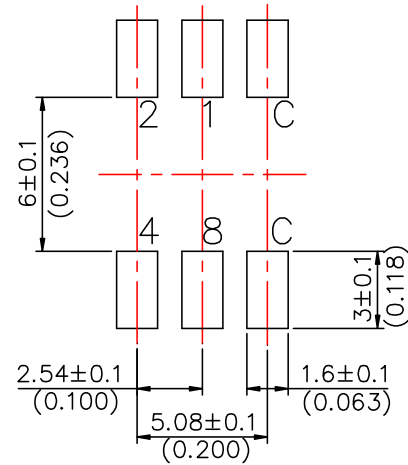
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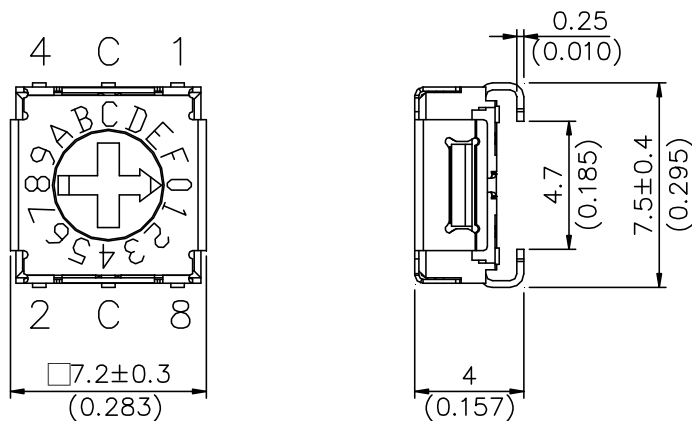
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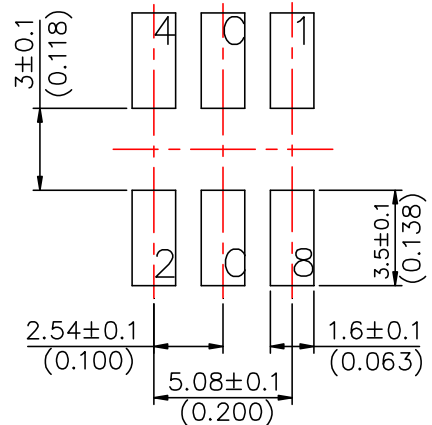
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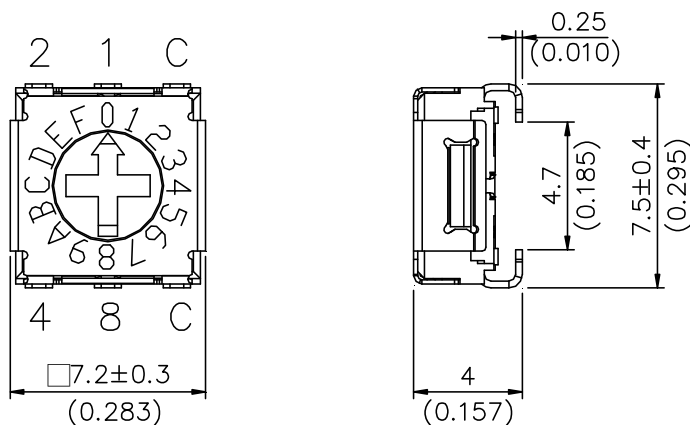
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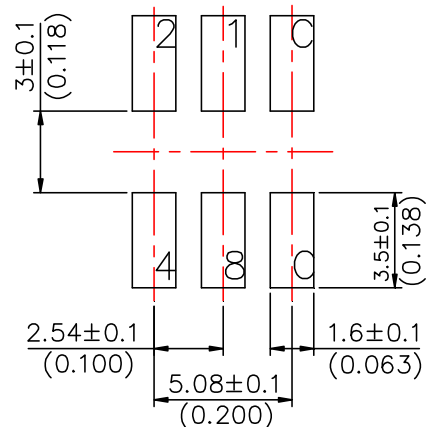
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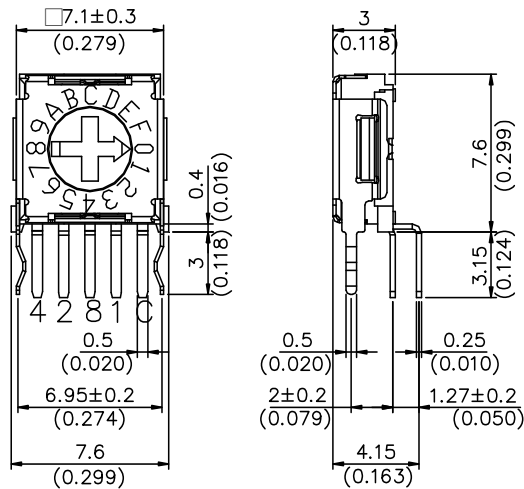


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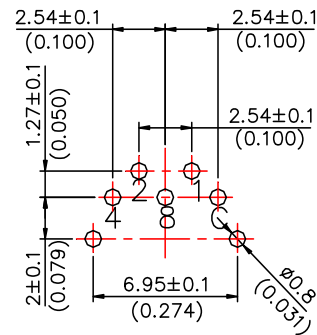




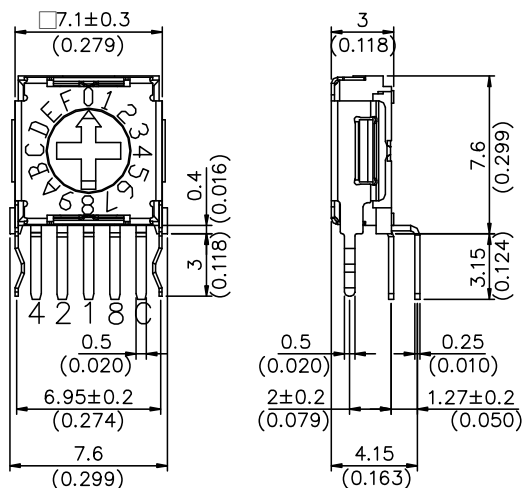
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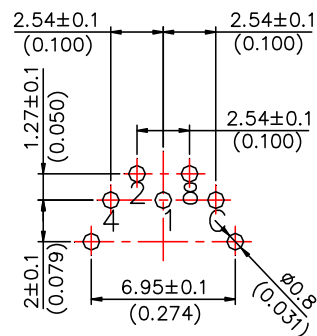
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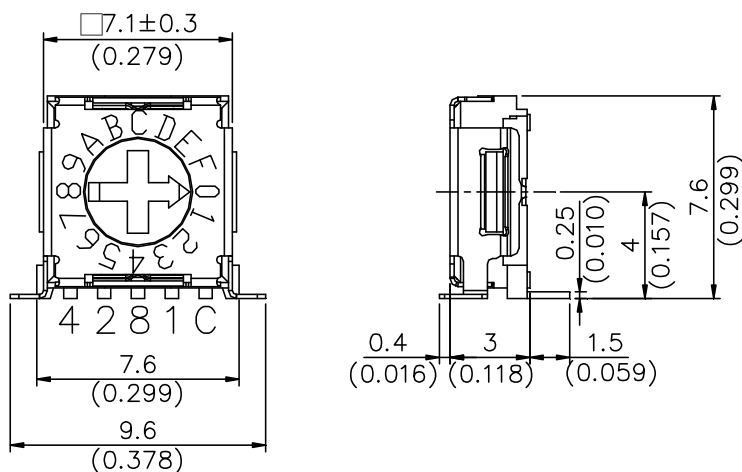
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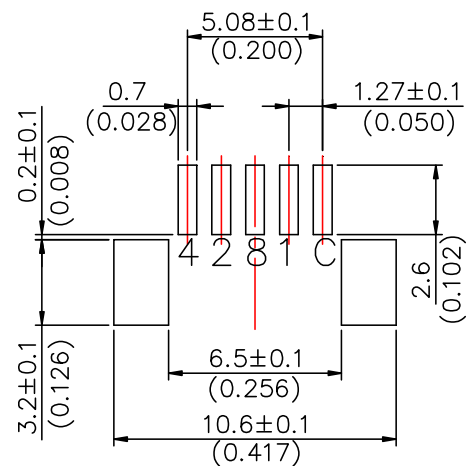
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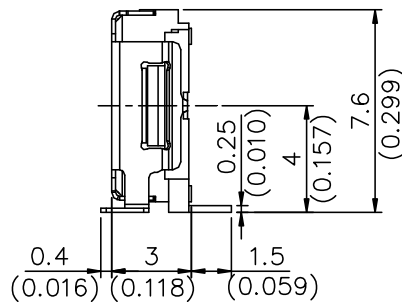
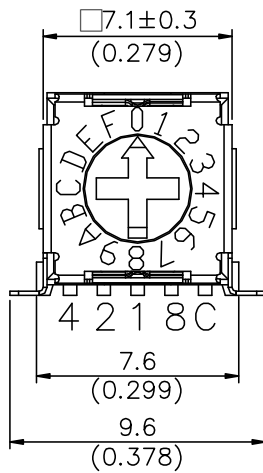


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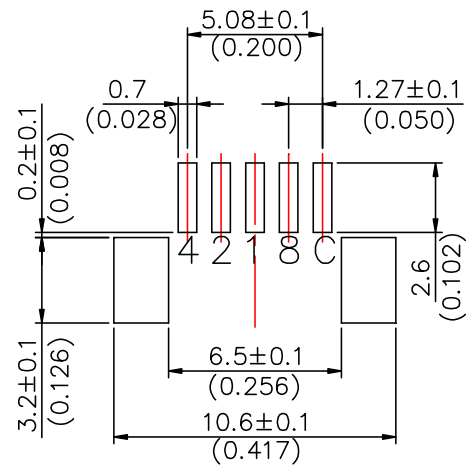




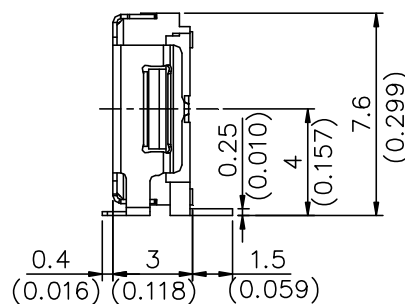
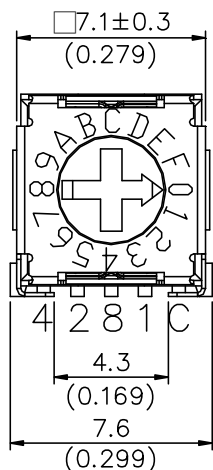
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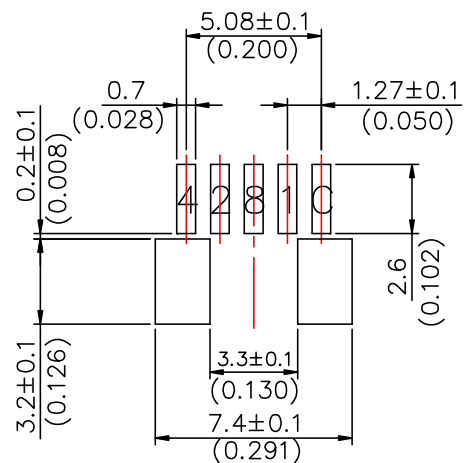
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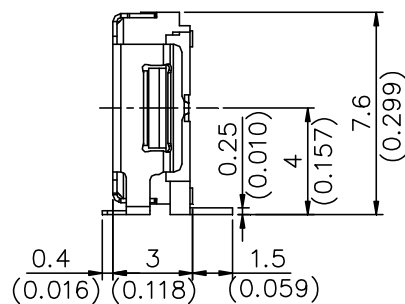
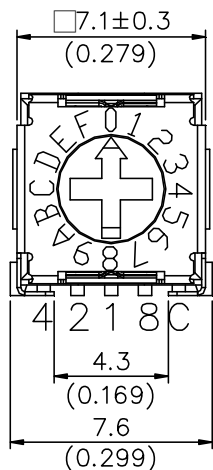
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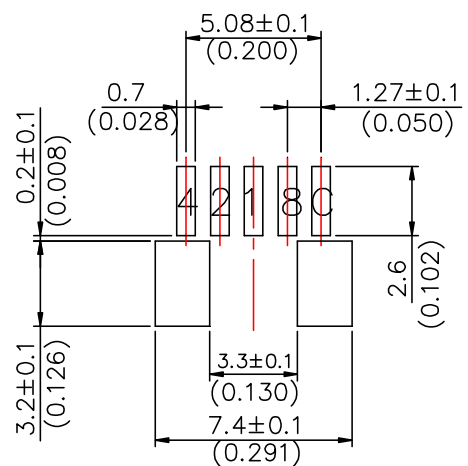
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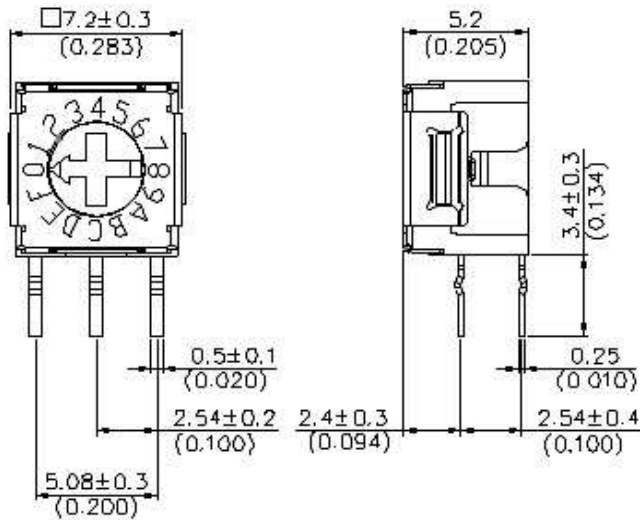
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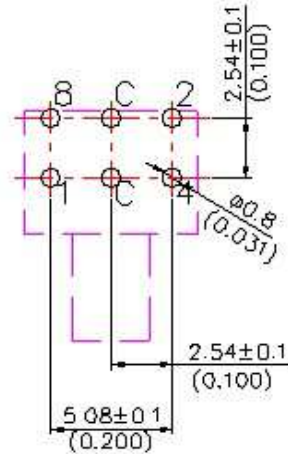
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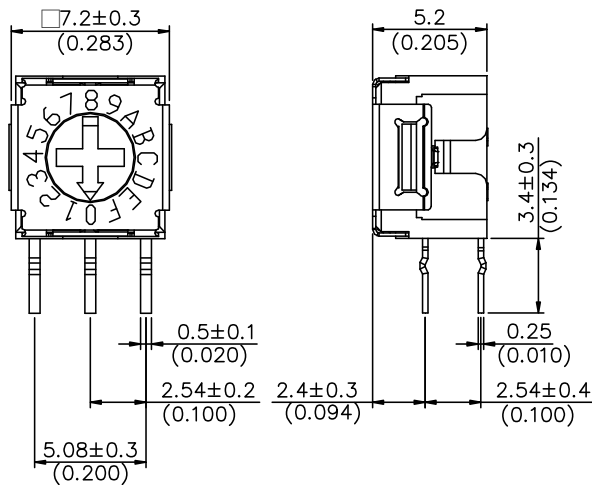
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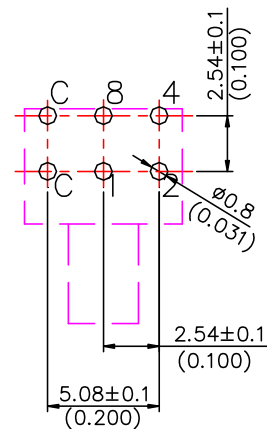
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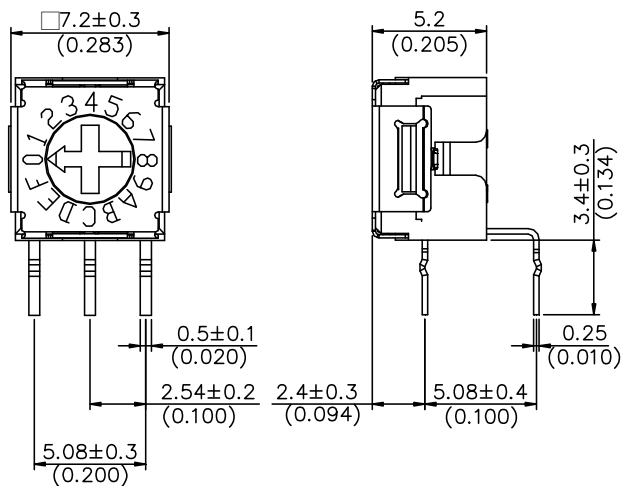
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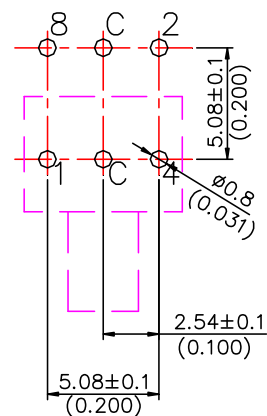
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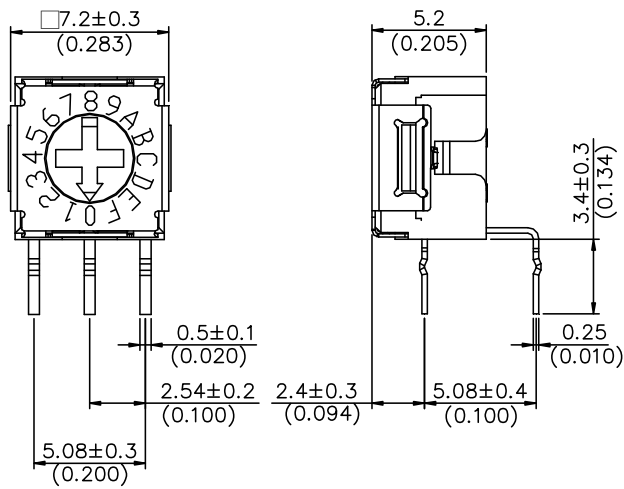
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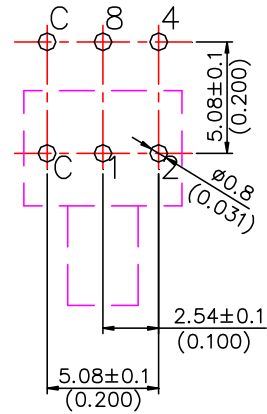
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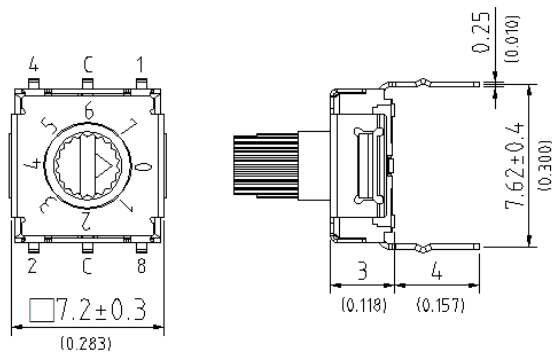
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ERD7XXSSZ SERIES



P.C.B. LAYOUT

