


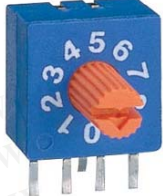


ERD SERIES 10x10 SIZE SEALED CONSTRUCTION ROTARY TYPE

PIN OUT (3:3)		PIN OUT(1:4)	
			
ERD 1xxxx (Flat Type)	ERD 2xxxx (Shaft Type)	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

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

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°C to +70°C
	Storage	-40°C to +85°C
● Operation force	500 gf-cm Max.	



Switch

● Mechanical life	2000 steps per position
● Vibration	10Hz-50Hz-10Hz for 6 Hrs.
● Solderability (for through hole type)	after flux 230±5°C for 5±0.5 seconds, 95% coverage
● Resistance to soldering heat (for through hole type)	260±5°C for 5±1 seconds
● Reflow soldering heat for SMT type (reference only)	<p>The graph shows a reflow soldering temperature profile. The y-axis is Temperature (°C) with markers at 150, 180, 240, and 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. A 20-second maximum dwell time is indicated at the peak.</p>

■ PART NUMBERING SYSTEM

ERD 1 10 R S XX Z

Z: RoHS Compliant

Special number:

None: Standard type

02: Black Housing (through hole type)

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 slot 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

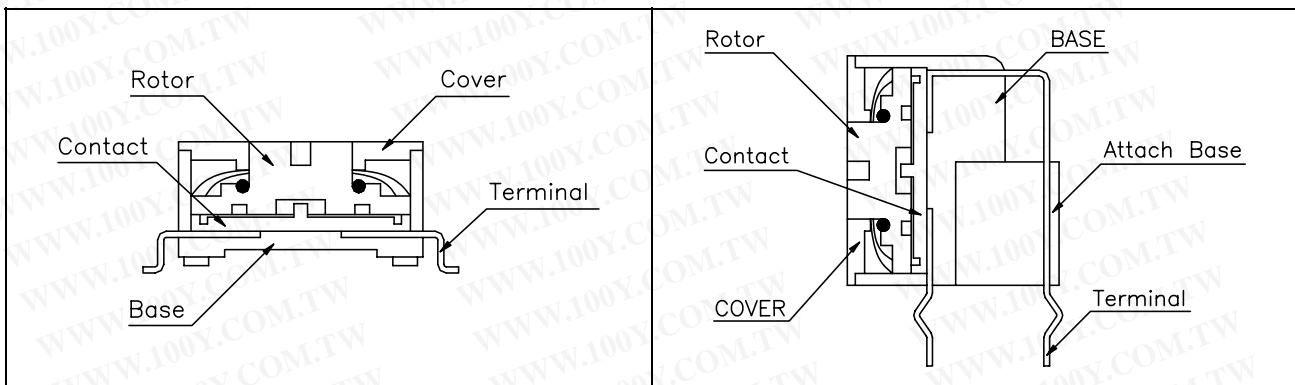


CODE

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

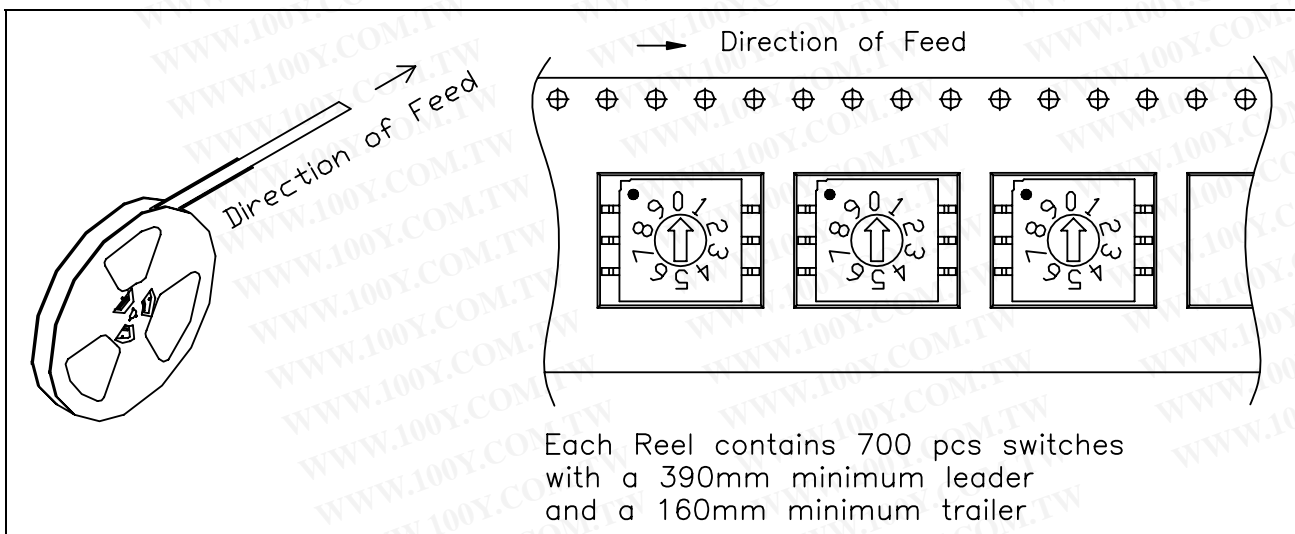
- ... Real Code
Rotor color:
White (3:3), Yellow (1:4)
- ... Complement Code
Rotor color:
Red (3:3), Orange (1:4)

CONSTRUCTION



PACKING

1. Tape & Reel Packaging (Per EIA STANDARD)



■ OPTIONS

1. Special marking available upon request

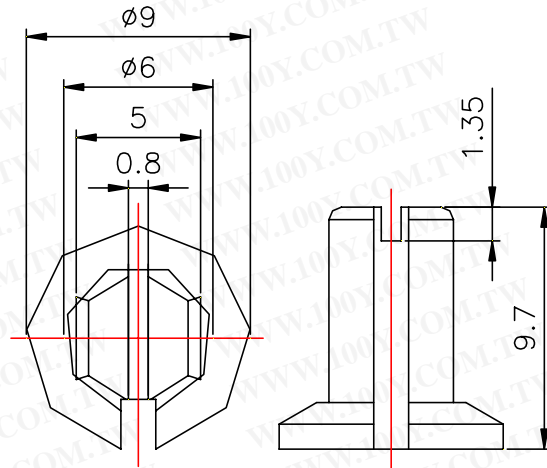
2. Shaft Cover

418-80100 (White 3:3)

418-80200 (Red 3:3)

418-80300 (Yellow 1:4)

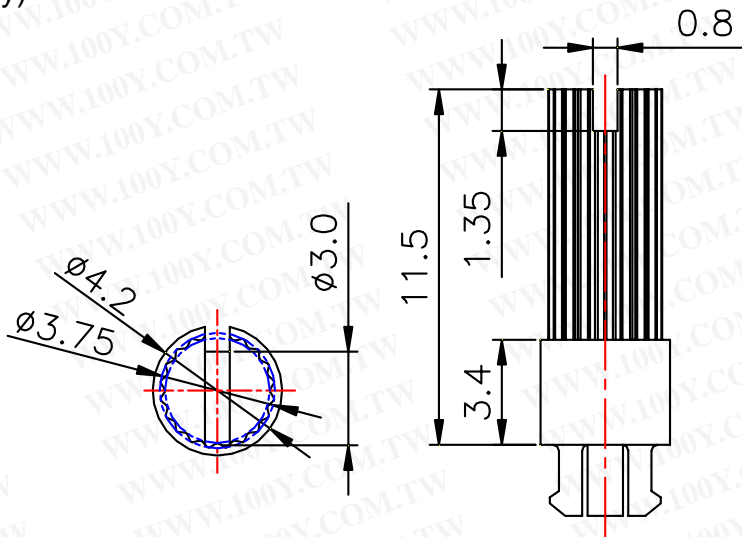
418-80400 (Orange 1:4)



3. Shaft (For Cross Slot Type Only)

418-90010 (White 3:3)

418-90020 (Red 3:3)

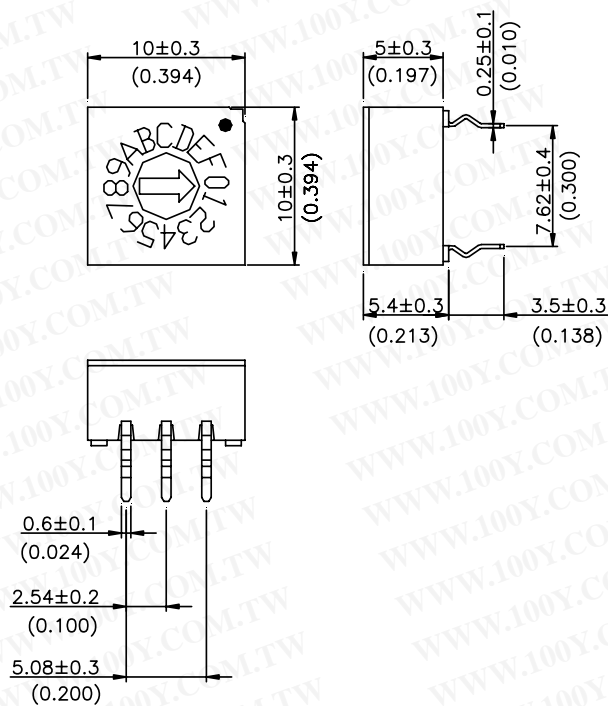


■ INTRODUCTION to ECE ROTARY DIP SWITCH

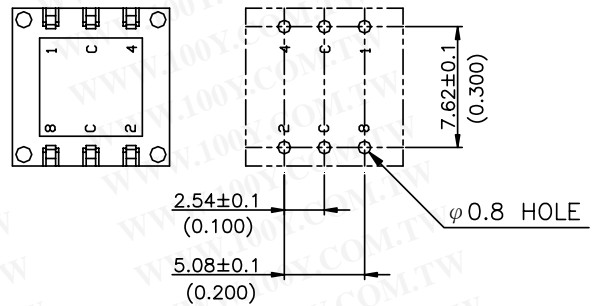
SIZE	POSITIONS	CODE	PIN OUT	ROTOR	TYPE	PART NUMBER
10x10	8,10,16	REAL, COMPLEMENT	3:3	FLAT, SHAFT	STANDARD	ERD1xxxS, ERD2xxxS
					RIGHT ANGLE	ERD1xxxR/F, ERD2xxR/F
				FLAT	SMT	ERD1xxxM
					SMT IN T&R	ERD1xxxD
			1:4	FLAT, SHAFT	STANDARD	ERD4xxxS, ERD5xxxS
					RIGHT ANGLE	ERD4xxxR/F, ERD5xxxR/F
	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

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

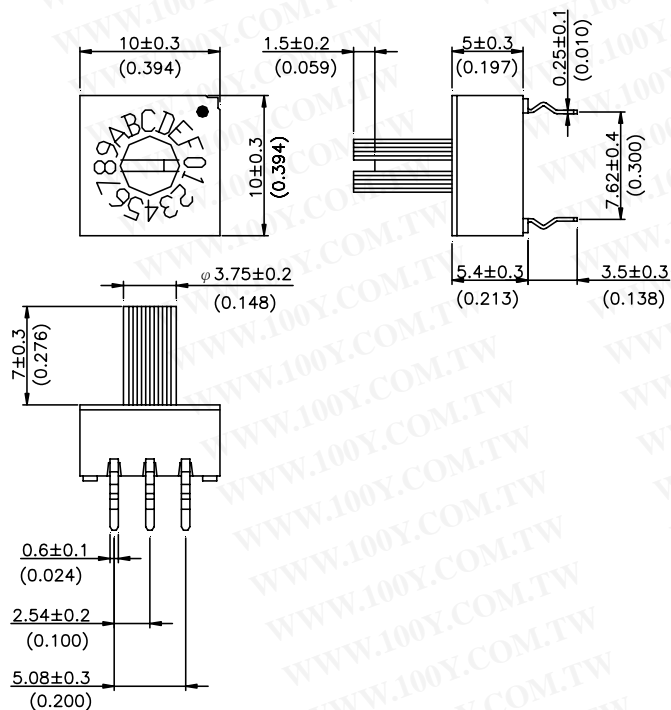
ERD1XXXS Flat Type



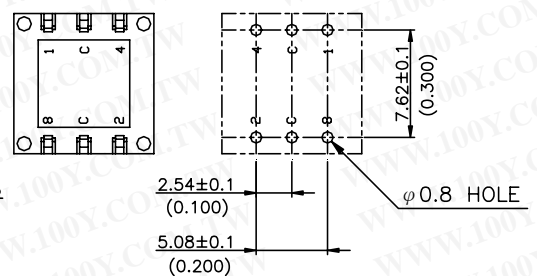
P.C.B LAYOUT (TOP VIEW)



ERD2XXXS Shaft Type



P.C.B LAYOUT (TOP VIEW)

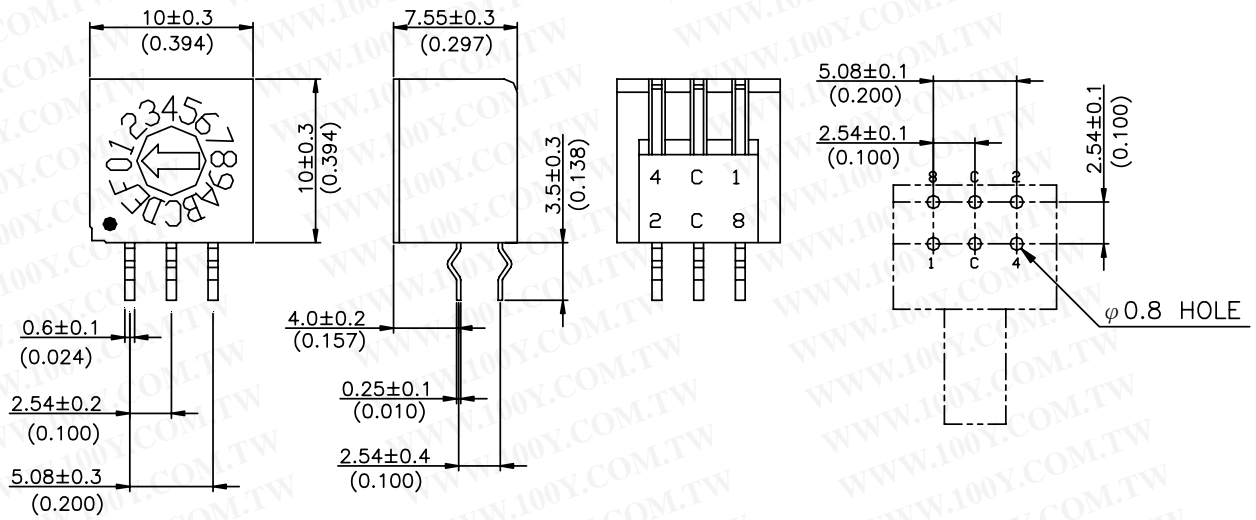




Switch

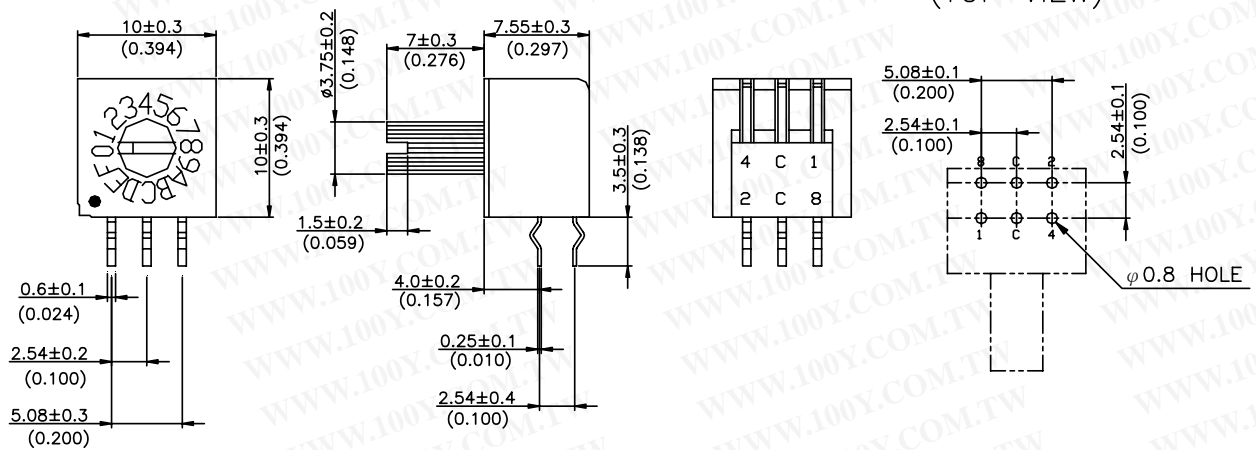
ERD1XXXR Flat Type

P.C.B LAYOUT (TOP VIEW)



ERD2XXXR Shaft Type

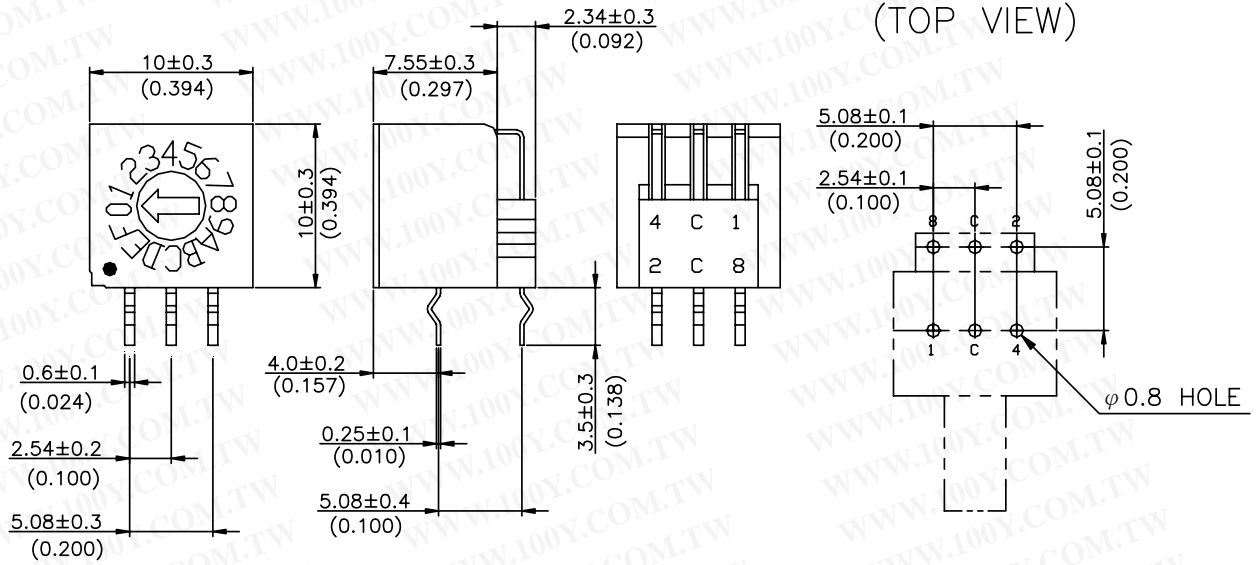
P.C.B LAYOUT (TOP VIEW)



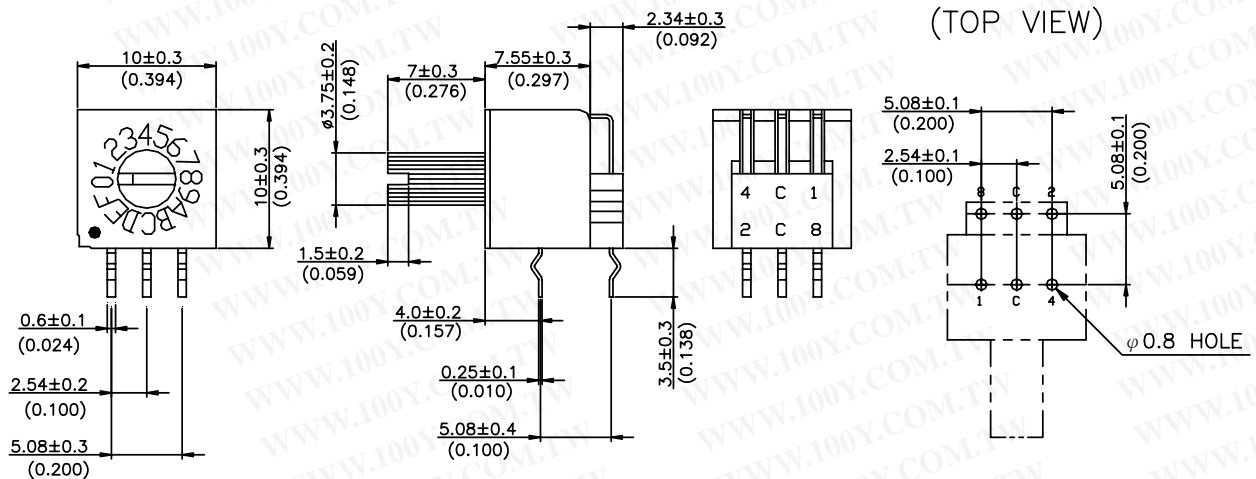


Switch

ERD1XXXF Flat Type



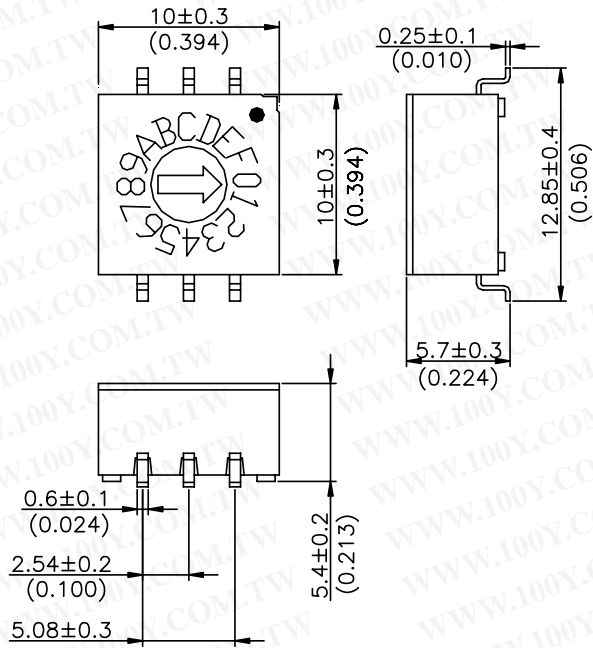
ERD2XXXF Shaft Type



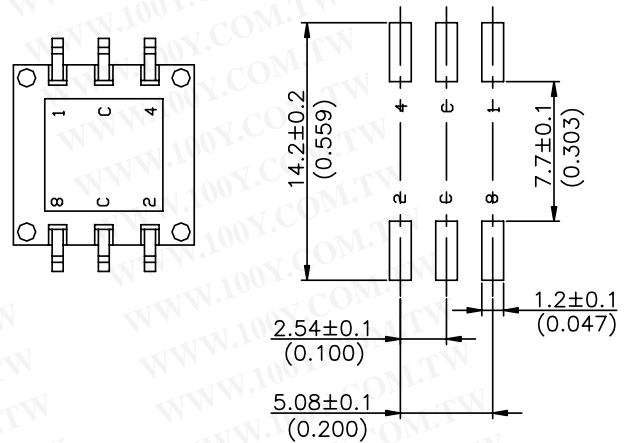


Switch

ERD1XXXM Flat Type

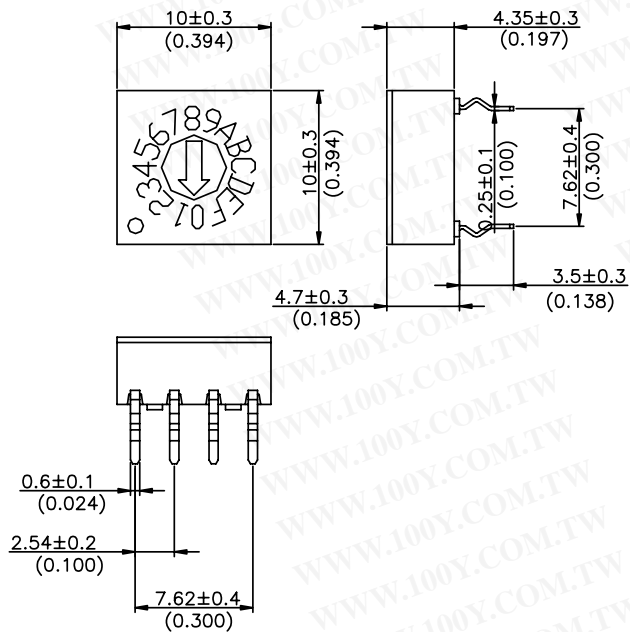


P.C.B LAYOUT (TOP VIEW)

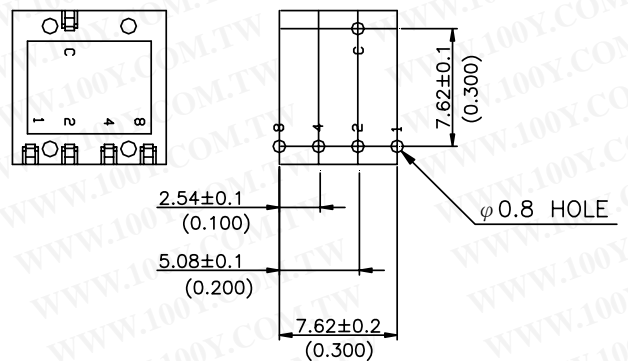


■ DIMENSIONS AND CIRCUITRY UNIT:mm(inch) PIN OUT 1:4

ERD4XXXS Flat Type



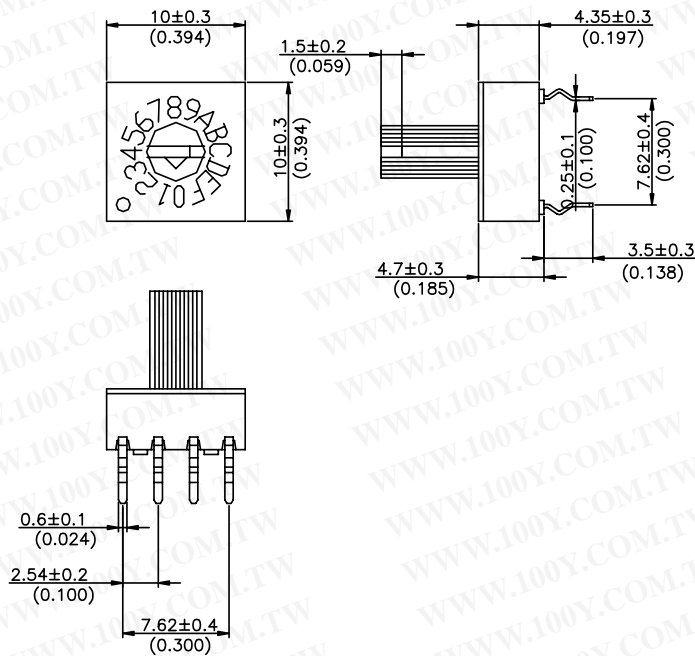
P.C.B LAYOUT (TOP VIEW)



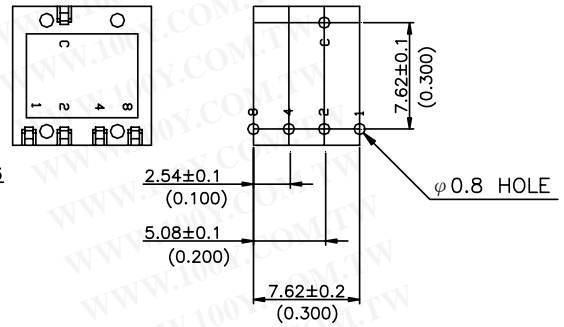


Switch

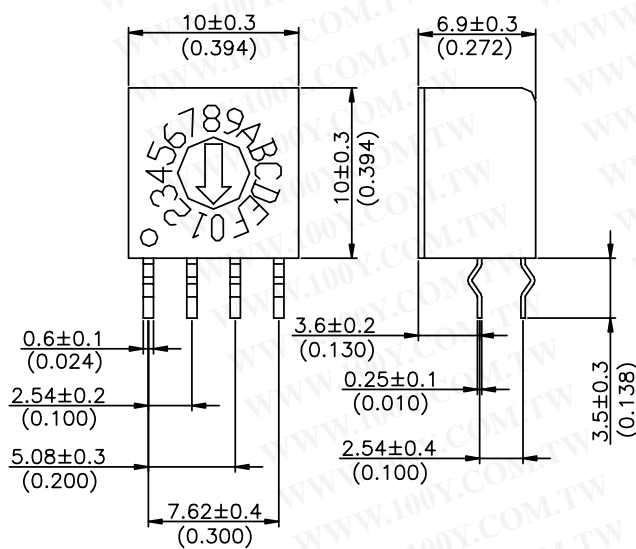
ERD5XXS Shaft Type



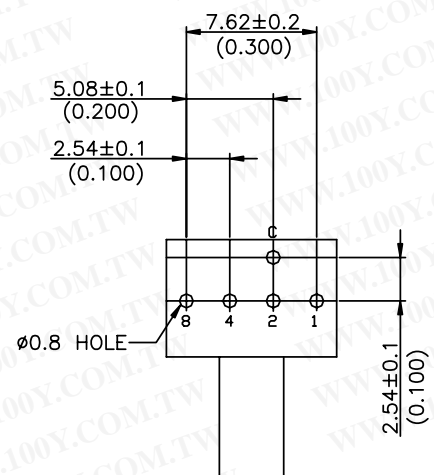
P.C.B LAYOUT (TOP VIEW)



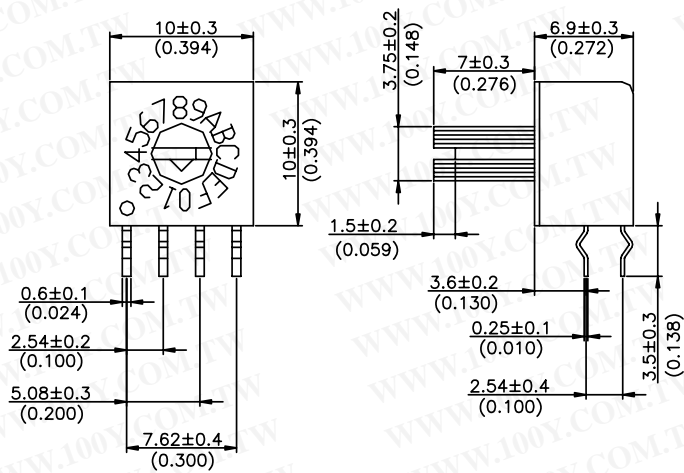
ERD4XXR Flat Type



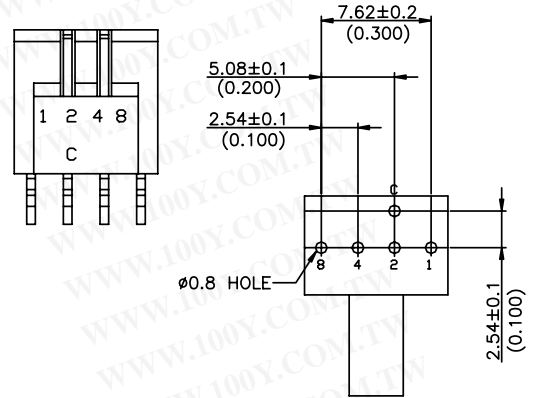
P.C.B LAYOUT (TOP VIEW)



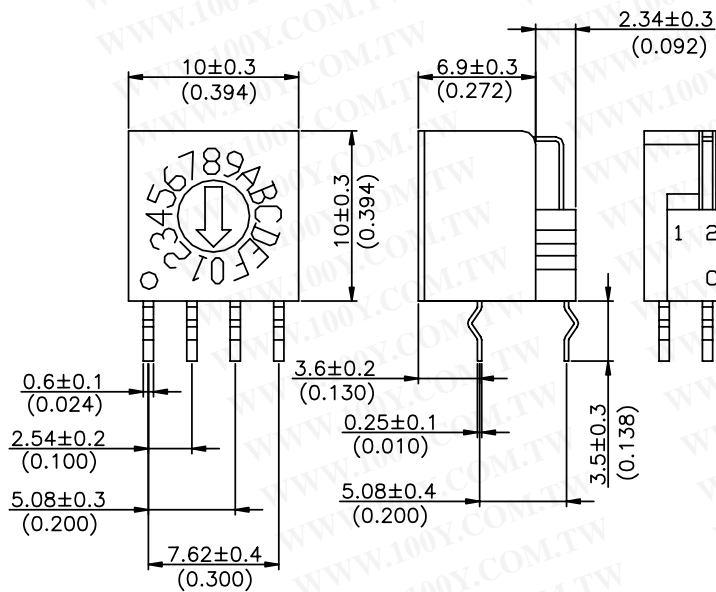
ERD5XXXR Shaft Type



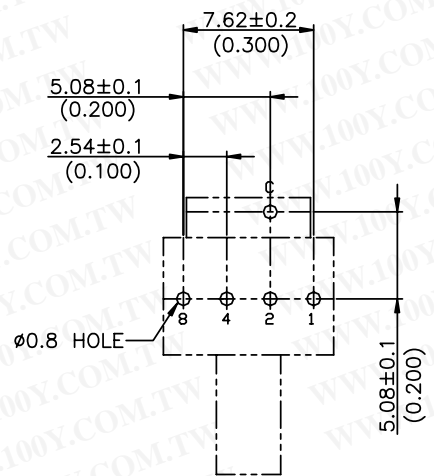
P.C.B LAYOUT
(TOP VIEW)



ERD4XXXF Flat Type



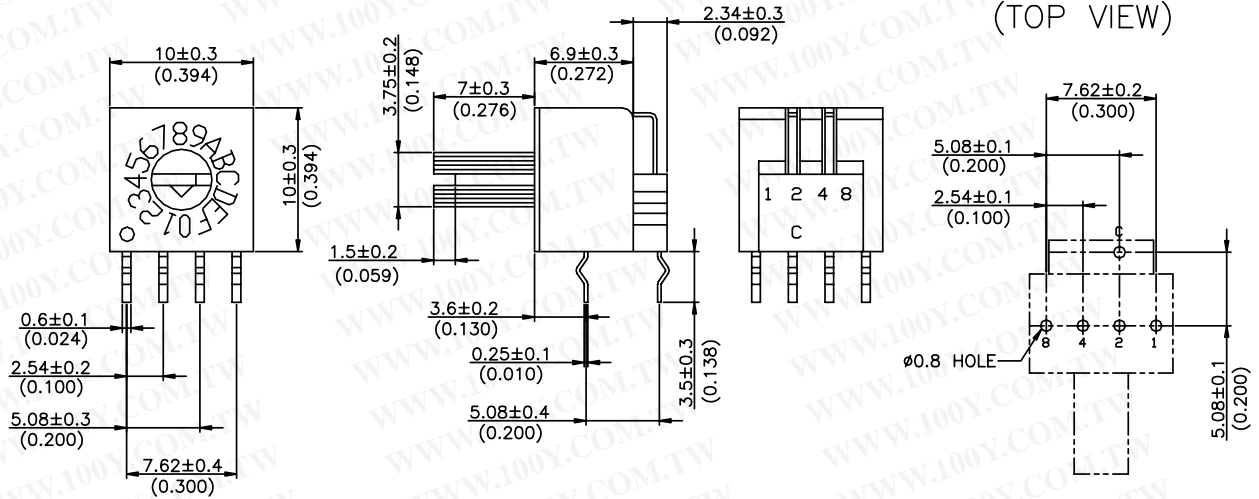
P.C.B LAYOUT
(TOP VIEW)



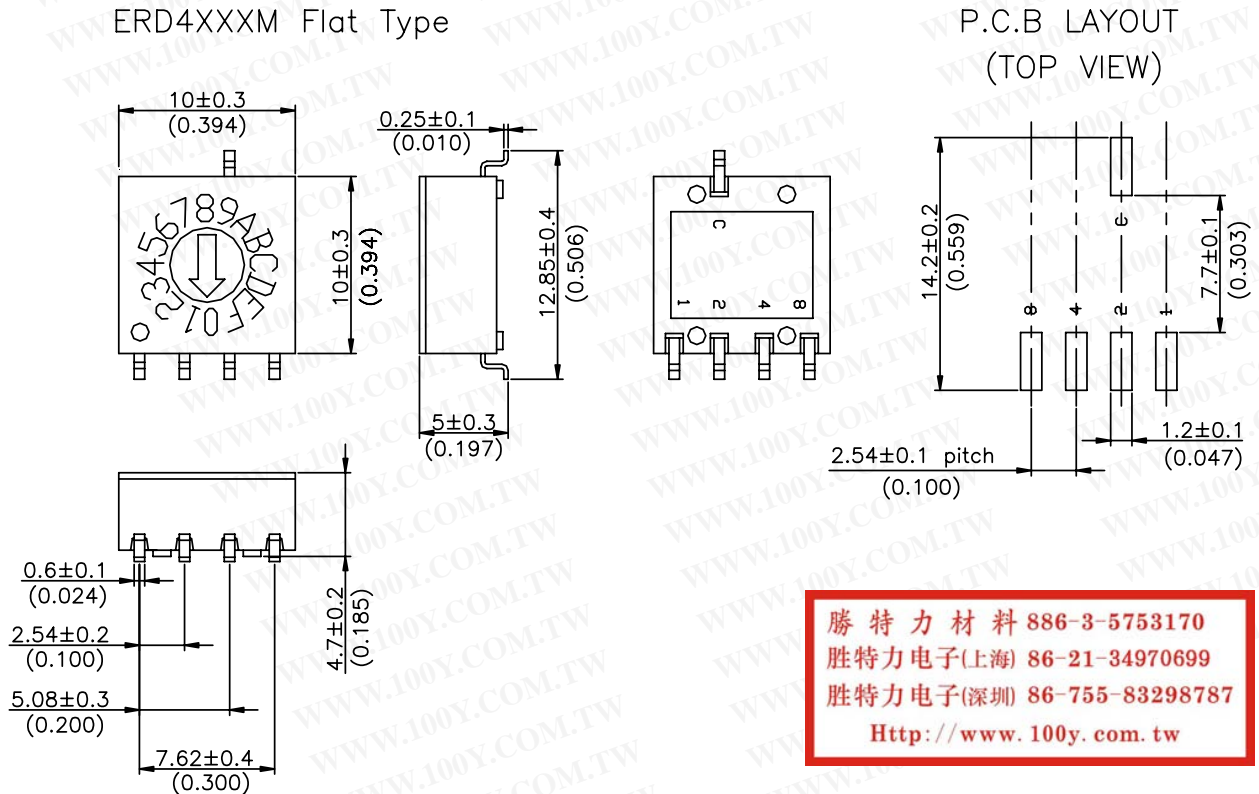


Switch

ERD5XXXF Shaft Type



ERD4XXXM Flat Type



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