



SPECIFICATION

Edition

6

ERD ROTARY DIP SWITCH

1. FEATURES :

- 1.1 Molded-in terminals and fully sealed construction.
- 1.2 Standard 2.54mm pin spacing.
- 1.3 UL 94V-0 grade fire retardant plastics.
- 1.4 Reliable contact and long-term stability
- 1.5 Binary decimal (8 or 10 positions) and Hexadecimal (16 positions), real and complementary codes available.
- 1.6 Pin-out compatible with most of current equivalents.
- 1.7 Gold plated contact to ensure low contact resistance.

2. SPECIFICATIONS :

2.1 ELECTRICAL

2.1.1 Contact Rating

Switching:

25 mA, 24 VDC

Non-Switching:

100 mA

2.1.2 Contact Resistance

100 mΩ Max.

2.1.3 Insulation Resistance

1000 MΩ Min. at 100 VDC

2.1.4 Dielectric Strength

250 VAC Min. for 60 seconds

2.1.5 Capacitance

5 pF Max. at 1 KHz

2.2 MECHANICAL AND ENVIRONMENTAL

2.2.1 Temperature Rating

Operating

-25°C to +70°C

Storage

-40°C to +85°C (at 45-85% RH)

2.2.2 Operation Force

500 gf-cm Max.

2.2.3 Mechanical Life

2000 steps per positions

2.2.4 Vibration

10 Hz - 55 Hz - 10 Hz for 6 Hrs.

2.2.5 Solderability

After flux, 230± 5°C for 5± 0.5 seconds  
95% coverage

2.2.6 Resistance to soldering heat

260± 5°C for 5± 1 seconds.

2.2.7 Reflow soldering heat for SMT type

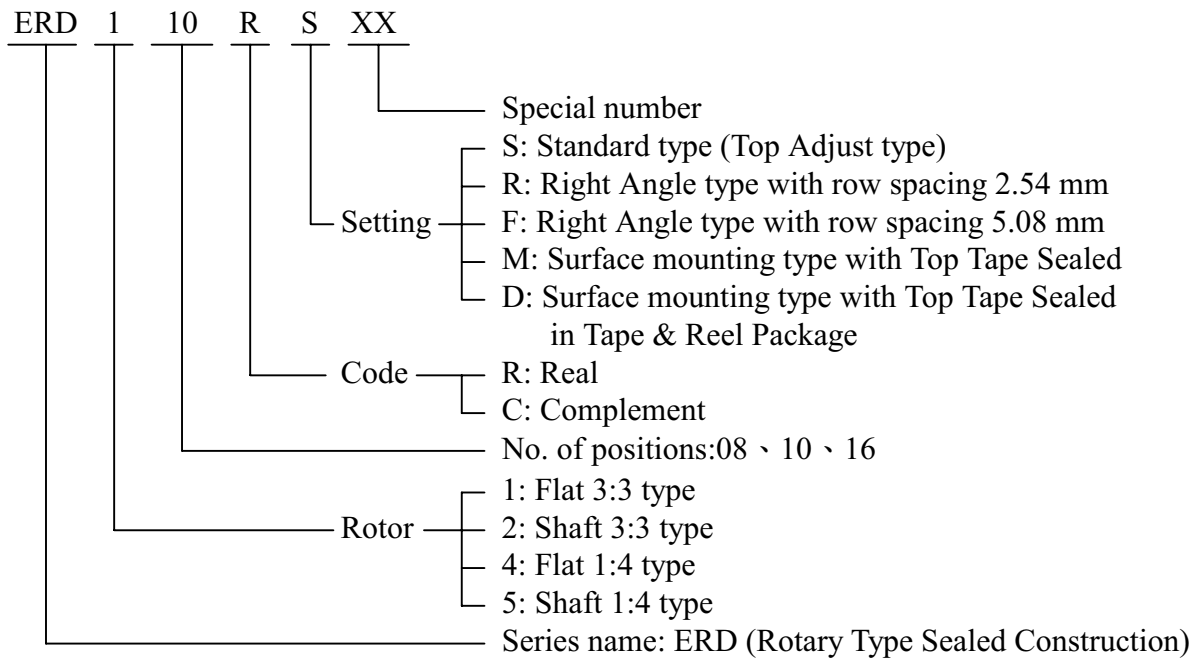
reflow zone 230± 5°C for 20 sec. Max.

 <b>EXCEL CELL ELECTRONIC CO., LTD.</b> <small>An ISO 9001 Company</small>	<b>NO.</b>	<b>A30890</b>	<b>PAGE</b> <b>2/2</b>
	<b>S P E C I F I C A T I O N</b>		<b>Edition</b>

### 3. OPTIONS :

- 3.1 Special marking available.
- 3.2 Shaft cover.
- 3.3 Tape & Reel Packing (Flat type only & per EIA STANDARD)

### 4. PART NUMBERING SYSTEM :



### 5. PACKING :

#### 5.1 PACKING METHOD

5.1.1 All switches are packed into IC tubes as an inner packing unit, and ten IC tubes are bundled together with rubber bands.

5.1.2 Length of IC tube: 560 mm

5.2 Switches may also be packed using tape & reel methods (flat type only & per EIA STANDARD). Each reel contains 700 pcs switches with a 390 mm minimum leader and a 160 mm minimum trailer.

5.3 INFORMATION ON LABEL (stuck to each bundle of IC tubes).

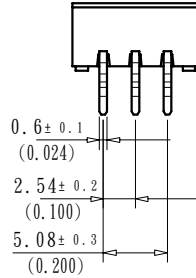
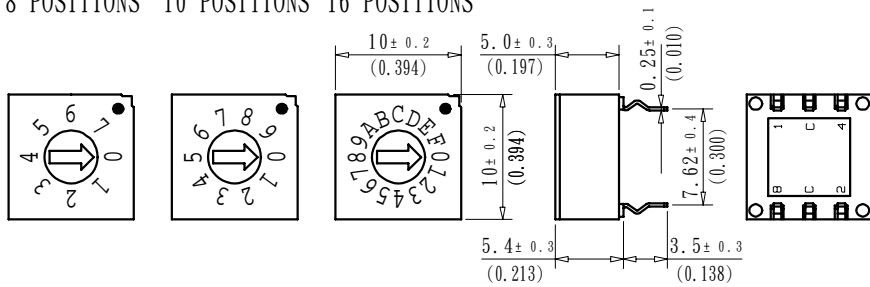
- |                   |                         |
|-------------------|-------------------------|
| (1) DESCRIPTION   | (6) ECE MARK            |
| (2) LOT NO.       | (7) QC STAMP            |
| (3) REPROCESS NO. | (8) DATE.               |
| (4) QUANTITY.     | (9) MANUFACTURERS NAME. |
| (5) TESTER NO.    |                         |

### 6. DRAWINGS :

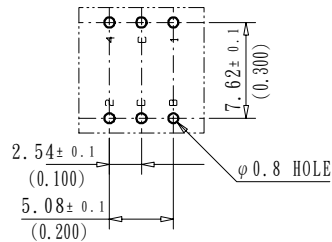
- |                        |                       |
|------------------------|-----------------------|
| Dip switch dimensions: | see attached drawing. |
| Circuit diagram:       | see attached drawing. |
| P.C.B. layout diagram: | see attached drawing. |

# ERD1xxxS

8 POSITIONS 10 POSITIONS 16 POSITIONS

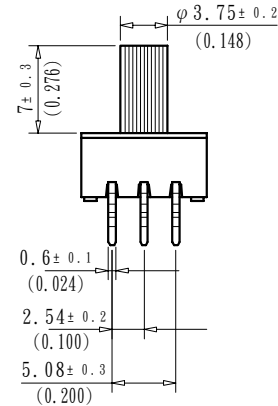
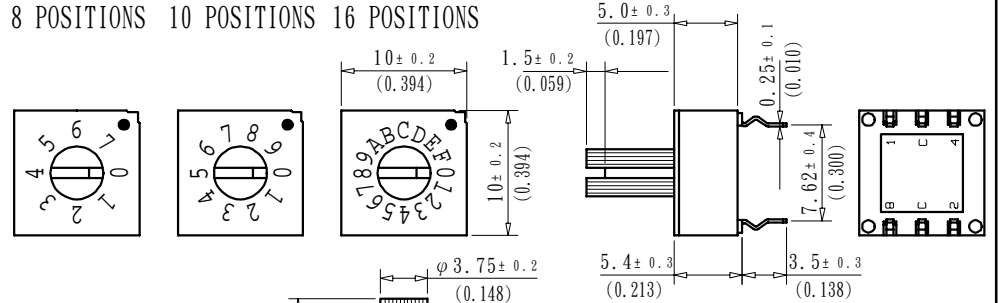


P. C. B LAYOUT  
(TOP VIEW)

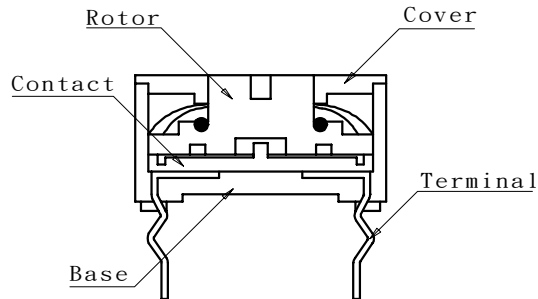


# ERD2xxxS

8 POSITIONS 10 POSITIONS 16 POSITIONS



CONSTRUCTION



PIN NO	POSITION															
	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  
○ ..... Complimentary Code Rotor color : red