

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, 50 VDC

2.1.2 Contact Resistance

100 m Ω Max.

2.1.3 Insulation Resistance

1000 M Ω 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 $^{\circ}$ C to +70 $^{\circ}$ C

Storage

-40 $^{\circ}$ C to +85 $^{\circ}$ 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 \pm 5 $^{\circ}$ C for 5 \pm 0.5 seconds
95% coverage

2.2.6 Resistance to soldering heat

260 \pm 5 $^{\circ}$ C for 5 \pm 1 seconds.

2.2.7 Reflow soldering heat for SMT type

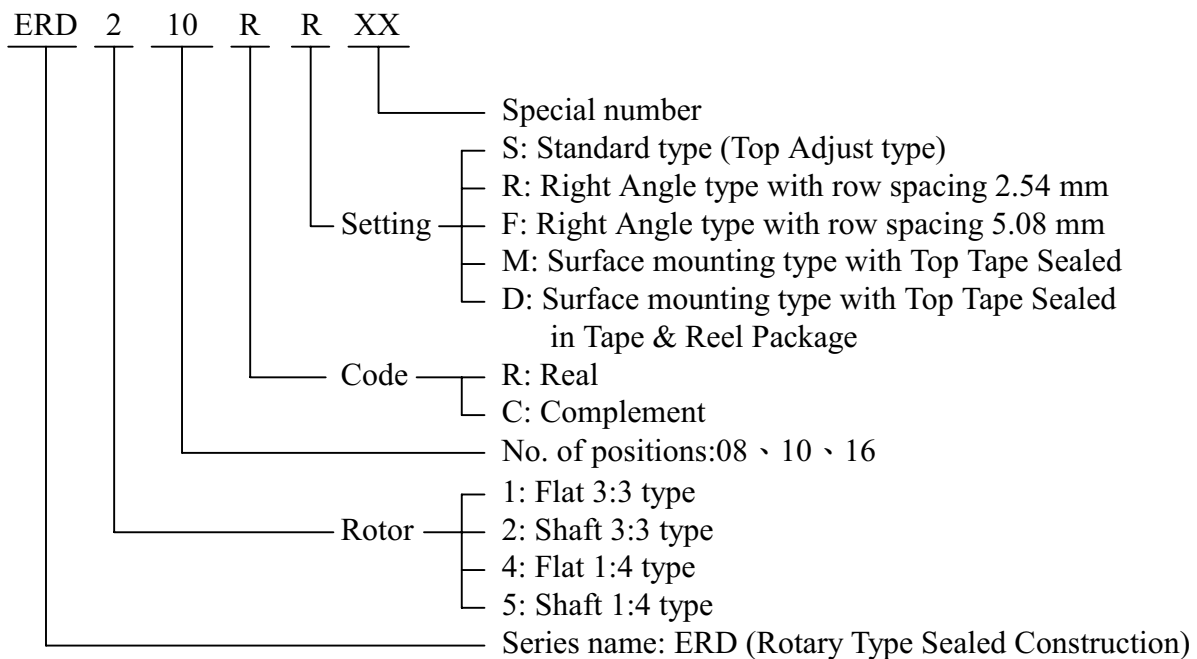
reflow zone 230 \pm 5 $^{\circ}$ C for 20 sec. Max.

 EXCEL CELL ELECTRONIC CO., LTD. <small>An ISO 9001 Company</small>	NO.	A30890	PAGE 2/2
	SPECIFICATION		Edition 6

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).

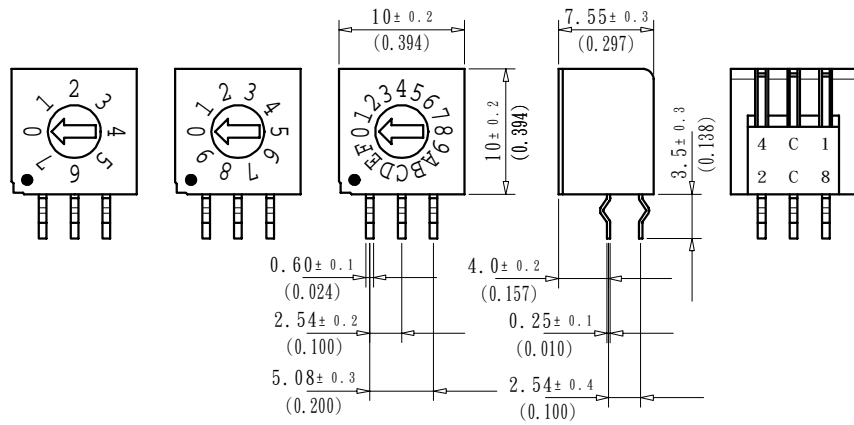
- | | |
|-------------------|-------------------------|
| (1) DESCRIPTION | (6) ECE MARK |
| (2) LOT NO. | (7) QC STAMP |
| (3) REPROCESS NO. | (8) DATE. |
| (4) QUANTITY. | (9) MANUFACTURERS NAME. |
| (5) TESTER NO. | |

6. DRAWINGS :

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

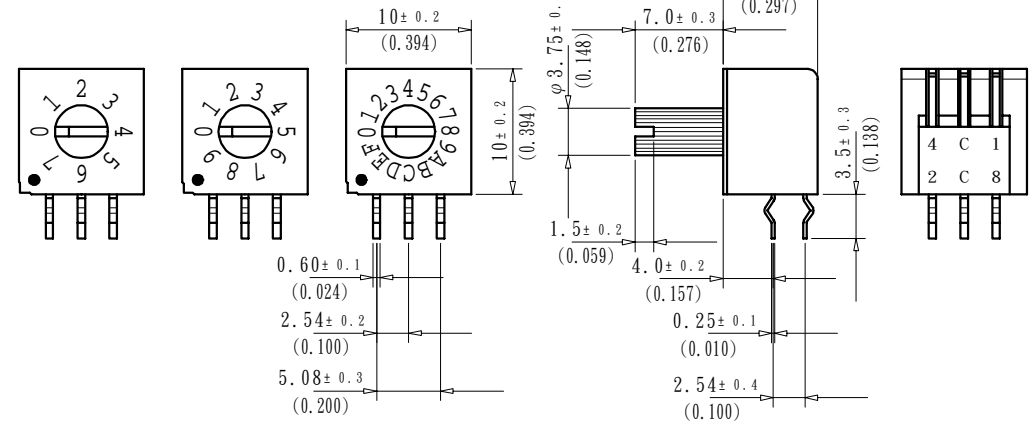
ERD1xxR

8 POSITIONS 10 POSITIONS 16 POSITIONS

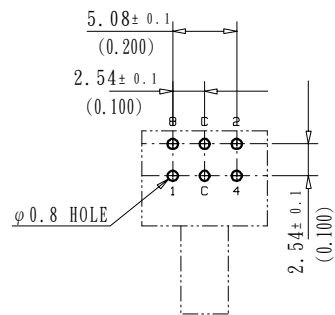


ERD2xxR

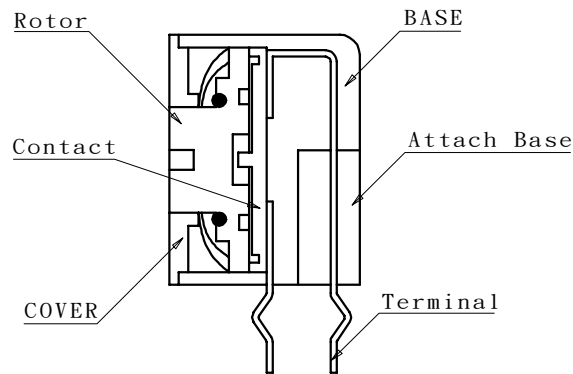
8 POSITIONS 10 POSITIONS 16 POSITIONS



P. C. B LAYOUT (TOP VIEW)



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

NO.	DETAILS	ALTERED BY	DATE	NORMAL TOLERANCE		PART NUMBER	UNIT	MM (INCH)	PART NAME	ERD
				RANGE	TOLERANCE					
				0 - 1	± 0.1	-----		5 : 3	TYPE	3 : 3 (RR&CR)
				1 - 4	± 0.3	CHECK GARY DESIGN JC.Y DRAWN JC.Y	QUANTITY	-----	FILE NAME	71833X1A.PRT
				4 - 16	± 0.5		PROCESSING	-----	ASSEMBLY NUMBER	-----
				16 - 63	± 0.8		PROJECTION		SURFACE TREATMENT	-----
				63 - 250	± 1.0					



CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

***Excel Cell Electronic Co., Ltd.
Taichung, Taiwan, R.O.C***

*has been approved by Lloyd's Register Quality Assurance
to the following Quality Management System Standards:*

**ISO 9001:1994
BS EN ISO 9001:1994**

The Quality Management System is applicable to:

***Design and manufacture of electromechanical components
including DIP switches, push switches, rotary switches,
reed relays, sockets and terminal blocks.***

*Approval
Certificate No: 933574*

Original Approval: 11th November 1993

Current Certificate: 30th September 1999

Certificate Expiry: 31st October 2002

on behalf of LRQA (LRIL Taiwan)



001



CERTIFICATE OF APPROVAL

This is to certify that the Environmental Management System of:

***Excel Cell Electronic Co., Ltd.
Taichung,
Taiwan, Republic of China***

*has been approved by Lloyd's Register Quality Assurance
to the following Environmental Management System Standards:*

ISO 14001:1996

The Environmental Management System is applicable to:

***Site activities associated with the design and manufacture of electro
mechanical components.***

Approval
Certificate No: T200203

Original Approval: 22nd June 2000

Current Certificate: 22nd June 2000

Certificate Expiry: 30th June 2003

Issued by: LRQA Taipei



This approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQA.
The use of the UKAS Accreditation Mark indicates Accreditation in respect of those activities covered by the Accreditation Certificate Number 001
The use of the JAS-ANZ Accreditation Mark indicates Accreditation by the Joint Accreditation System of Australia and New Zealand in respect of those activities covered by the
Accreditation Certificate Number S1250992UH
Macro rev 4.0