



SPECIFICATION

Edition

4

EMS MACHINE PIN SOCKET (SIP & DIP)

1. FEATURES:

- 1-1 Funnel shaped four-fingered and six-fingered contacts provide easy IC insertion and withdrawal, high reliability.
- 1-2 Gold plated contacts to ensure low contact resistance and Tin plated terminal to prevent contamination during soldering.
- 1-3 All plastics are UL 94V-0 grade fire retardant plastics.
- 1-4 Fit standard pitch with 2.54 mm x 2.54 mm (0.100 " x 0.100 ") pin spacing.


2. SPECIFICATION:

2-1 ELECTRICAL

- 2-1-1 Contact Rating 1 Amp DC Max.
- 2-1-2 Contact Resistance 10 m Max.
- 2-1-3 Insulation Resistance 10 M Min. at 100 VDC
- 2-1-4 Dielectric Strength 1000 VAC Min for 60 sec.
- 2-1-5 Capacitance between 0.9 pF Max adjacent pin

2-2 MECHANICAL AND ENVIRONMENTAL

- 2-2-1 Temperature Rating
 - Operating -55 to +125
- 2-2-2 Life cycle 100 cycles Min. (with insertion and withdrawal)
- 2-2-3 Humidity 90 % to 95 % RH, 40 for 96 Hrs
- 2-2-4 Vibration 10 to 55 Hz for 6 Hrs
- 2-2-5 Solderability 230 ± 5 for 5±0.5 seconds 95 % coverage
- 2-2-6 Soldering Heat After 260±5 for 5±1 sec. shall have no deterioration

 EXCEL CELL ELECTRONIC CO.,LTD. <small>An ISO 9001 & 14001 Company</small>	NO.	A30879	PAGE
			2
SPECIFICATION		Edition	4

3. MATERIALS

3-1 Sleeve: Brass.

3-2 Clip: Beryllium copper; gold plated over nickel.

4. PART NUMBERING SYSTEM

EMS 2 7 04 3 4 XX X

Z: RoHS Compliance
Special product number
0: Do not need CLIP
4: Four fingered CLIP
6: Six fingered CLIP

3: Length 7.4mm Sleeve Tin plated
4: Length 7.4mm Sleeve Gold plated
5: Wire-wrap pin Tin plated
6: Wire wrap pin Gold plated
7: Solder fork pin Tin plated
8: Solder fork pin Gold plated
9: Straight pin Gold plated
91: Straight pin Tin plated

Number of pins

SIP: From 1 TO 40 as required

DIP: 06, 07, 08, 10, 14, 16, 18, 20, 22,

24, 28, 32, 36, 40, 42, 48, 64, 68, 84

0: Single row

1: Between two row pitch 0.1"

3: Between two row pitch 0.3"

4: Between two row pitch 0.4"

6: Between two Row pitch 0.6"

7: Oscillator type two row pitch 0.3"


9: Between two row pitch 0.9"

1: SIP type (plastic base)

2: DIP type (plastic base)

9: Carrier type (metal carrier)

Series Name

 EXCEL CELL ELECTRONIC CO.,LTD. <small>An ISO 9001 & 14001 Company</small>	NO.	A30879	PAGE 3
S P E C I F I C A T I O N	Edition	4	

5. PACKING

5-1 PACKING METHOD

Sockets are packed into IC tubes as an inner packing unit and then IC tubes are budled together with rubber bands.

However single row sockets are packed in plastic bags.

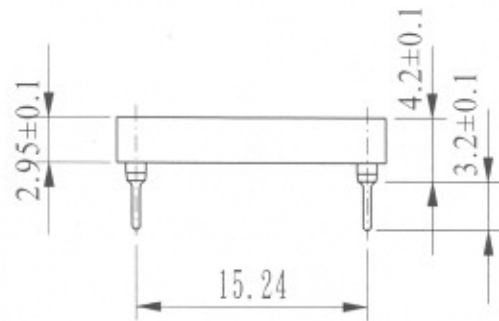
5-2 INFORMATION ON THE LABLE.

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

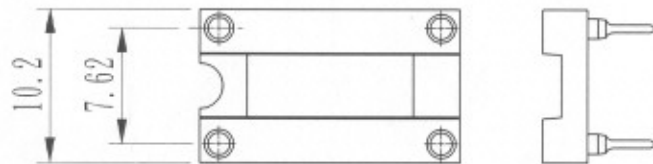
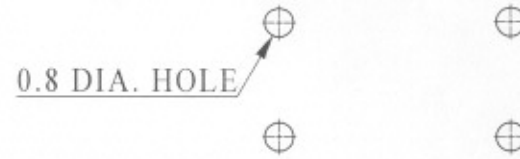
6. DRAWINGS

Socket dimensions : see attached drawing.

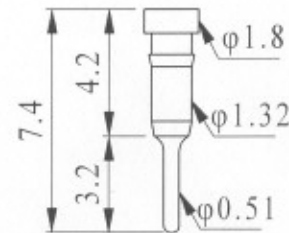
P.C.B. layout diagram : see attached drawing.



P.C.B. LAYOUT



STANDARD PIN CONSTRUCTION



NO.	DETAILS	ALTERED BY	DATE	NORMAL TOLERANCE		PART NUMBER	UNIT		MM (INCH)	PART NAME	EMS	
				RANGE	TOLERANCE		SCALE	TYPE				
				0 - 1	±0.1		SEE SPEC	4 : 1				
				1 - 4	±0.3	CHECK	DESIGN 林秋如	DRAWN	QUANTITY	-----	FILE NAME	EMS270434A.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 Industrial Park, Taichung,
Taiwan***

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

ISO 9001:2000

The Quality Management System is applicable to:

***Design and manufacture of electromechanical components including
switches (DIP switches, rotary switches, push switches, micro switches),
relay, terminal block, connector and socket, connector relative
components, modular plug and phone jack; plastic injection & molds for
electromechanical components; stamping components and lead frames.***

*This certificate is valid only in association with the certificate schedule bearing the same number on which the
locations applicable to this approval are listed.*

*Approval
Certificate No: 933574*

Original Approval: 11 November 1993

Current Certificate: 5 October 2005

Certificate Expiry: 31 October 2008

Issued by: LRQA Taipei



This document is subject to the provision on the reverse.

*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 these activities covered by the Accreditation Certificate Number 001*



CERTIFICATE OF APPROVAL

This is to certify that the Environmental Management System of:

***Excel Cell Electronic Co., Ltd.
Taichung Industrial Park,
Taichung, Taiwan***

*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:

Design and manufacture of electro mechanical components.

*Approval
Certificate No: T200203*

Original Approval: 22 June 2000

Current Certificate: 4 June 2003

Certificate Expiry: 30 June 2006

Issued by: LRQA Taipei



001

This document is subject to the provision on the reverse.

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