



APPROVAL SHEET

CUSTOMER

云翔有限公司

PART NAME

EMS MACHINE PIN SOCKET

PART NUMBER

EMS270434

SPECIFICATION NUMBER

'06.03002

CUSTOMER APPROVAL & COMMENTS

CUSTOMERS MODEL NO.

R & D APPR. SIGNATURED

DEPT

ISSUE	CHECK	APPROVAL
高 佩安 MAR 01 2006	張 友志 MAR 01 2006	江 慶崇 MAR 01 2006



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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 withdrawl, 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 withdrawl)

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

2-2-6 Soldering Heat 5±0.5 seconds 95 % coverage
After 260±5 for 5±1 sec.
shall have no deterioration



S P E C I F I C A T I O N

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

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

5. PACKING

5-1 PACKING METHOD

Sockets are packed into IC tubes as an inner packing unit and then IC tubes are bundled together with rubber bands. However single row sockets are packed in plastic bags.

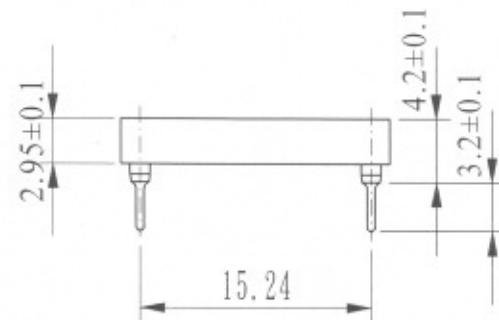
5-2 INFORMATION ON THE LABLE.

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

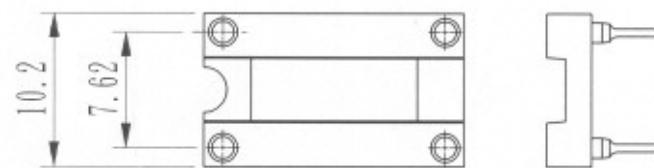
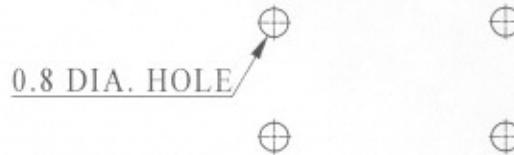
6. DRAWINGS

Socket dimensions : see attached drawing.

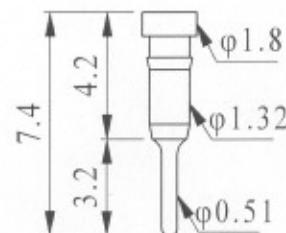
P.C.B. layout diagram : see attached drawing.



P.C.B. LAYOUT



STANDARD PIN CONSTRUCTION



NO.	DETAILS	ALTERED BY	DATE	NORMAL TOLERANCE		PART NUMBER	SEE SPEC		UNIT	MM (INCH)	PART NAME	EMS
				RANGE	TOLERANCE		MATERIAL	DESIGN				
				0 - 1	±0.1				SCALE	4 : 1	TYPE	DIP
				1 - 4	±0.3				QUANTITY		FILE NAME	EMS270434A.PRT
				4 - 16	±0.5				PROCESSING		ASSEMBLY NUMBER	
				16 - 63	±0.8				PROJECTION		SURFACE TREATMENT	
				63 - 250	±1.0							
						CH-ECK	SP 99	林秋如				
						水銘	SP 99	慶崇				



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



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
M001/01/001



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