APPROVAL SHEET

CUSTOMER 華凌光電(常熟)有限公司

PART NAME ~~EFC-PT24-SU26H2A-31Z-E2000~~ (CNG5231XXXXXXXXXXX0)

PART NUMBER 767100126310Z

SPECIFICATION NUMBER F0907723

CUSTOMER APPROVAL & COMMENTS

CUSTOMERS MODEL NO.

R & D APPR. SIGNATURED			DEPT.
ISSUE	CHECK	APPROVAL	
劉 JUL.20.2009 慧如	陳 JUL.20.2009 權澤	陳 JUL.20.2009 伯杉	研發二部 TEL:(04)23598668

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('60018) 2000.6.

Represented by:
first FC components
FIRST Components srl Via Cavour 69, 21020 Buguggiate (VA)
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EXCEL CELL ELECTRONIC CO. , LTD.	NO.		PAGE 1/2
SPECIFICATION	Edition	6	

0.5mm Contact Spacing, ZIF Type Board To FPC Connectors Slide SMT Type

EFC-PT24 SERIES (SU/SD)

FEATURES

- 0.5 mm contact spacing.
- No. of contacts : 4~60 pin.
- Connector Heights : 2.0 mm.
- Available in tube or embossed type for automatic mounting.

SPECIFICATIONS

1. ELECTRICAL

- Voltage rating : 50V (per contact)
- Current rating : 0.5A (per contact)
- Dielectric Withstanding Voltage:250VAC RMS
- Contact resistance : 20 mΩ max.(initial)
  40 mΩ max.(final)
- Insulation resistance : 50 MΩ min.
- Accommodated FFC/FPC Thickness : 0.30mm
- Operating Temp.: -40℃~+80℃
- Storage Temp.: -20℃~+65℃

2.MECHANICAL

- Durability : Mate & Unmate with applicability for 20 times, Contact resistance: 40 mΩ max.
- Operating force (Slider): 0.05kgf*n(0.49N*n) max. (n : Pin)
- Cable holding force:0.03 kgf*n(0.294N*n) min. (n : Pin)
- Contact retention force: 0.1 kgf (0.98N) min.

MATERIALS

1. MATERIAL

- Contacts：Copper Alloy
- Hold Down：Copper Alloy
- Insulator Housing：High Temp. Thermoplastic
- Slide：High Temp. Thermoplastic

2. PLATING

Contact:

- Nickel In All Area
- Tin over Nickel (RoHS Compliant)
- Tin & Au over Nickel (RoHS Compliant)
- Au over Nickel (RoHS Compliant)

Hold Down:

- Tin over Nickel (RoHS Compliant)

PACKING

1. Packing method

1-1. All connector are packed in tube or reel method.

2. Information on label (stuck to each ploy bag, reel and box)

(1)Part No. (2) Section. (3) Lot No. (4) Quantity.
(5) QC stamp. (6) Reprocess No. (7) ECE mark.

DRAWING

Main dimensions：see attached drawing.

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- **PART NUMBERING SYSTEM**

EFC – PT24 - SU 26 H2A –31Z- E 2000

No. of Connectors
2000: SUxxH2A & SDxxH2A

Package type:
E: Embossed type

Plating Type
31Z: Tin over Ni (RoHS Compliant)
44Z: Au over Ni (RoHS Compliant)
54Z: Tin & Au over Ni (RoHS Compliant)

Height:
H2A : Right Angle Height: 2.0 mm (Slide Type)

No. of Contacts
04: 4 Pin.
:
60: 60 Pin.

Contact Configuration
SU: Slide Type, Up-side contact
SD: Slide Type, Down-side contact

Series Name : PT24

Model Name：
EFC: FFC/FPC Connectors

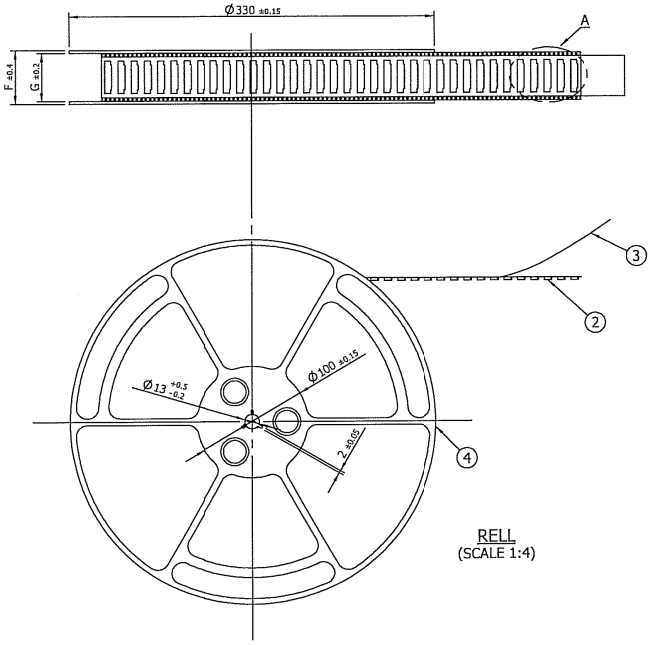
Title Block.品號(Number):CNG5231XXXXXXXXXR30D003

Title Block.Lifecycle Phase:Approval

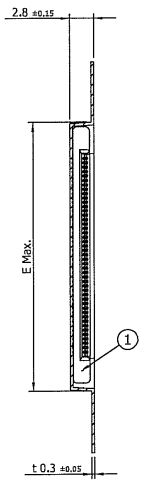
鄭雅菁[Doris], 台中廠國外業務部歐洲課副課 (w060007)

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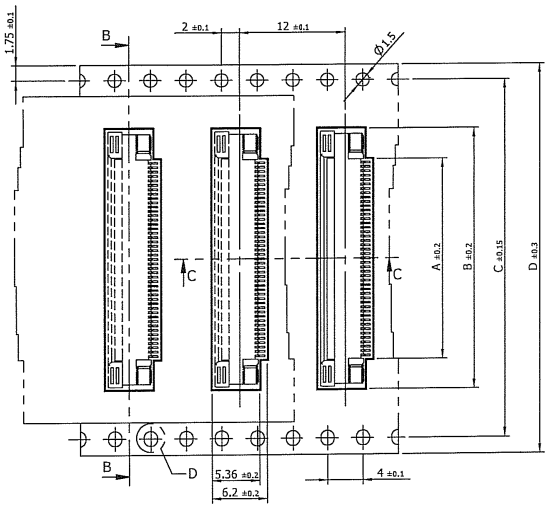
REV.	DATE	MOD. NO.	DESCRIPTION	DRA.	CHE.	APP.
3	2007.07.09	F0707403	ADD. POSITION NUMBER	Huiru	Alden	Marlon
4	2007.12.14	F0712404	MODIFY TABLE 2	Huiru	Alden	Marlon



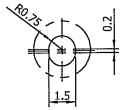
REEL
(SCALE 1:4)



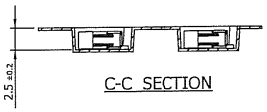
B-B SECTION



A VIEW DETAIL



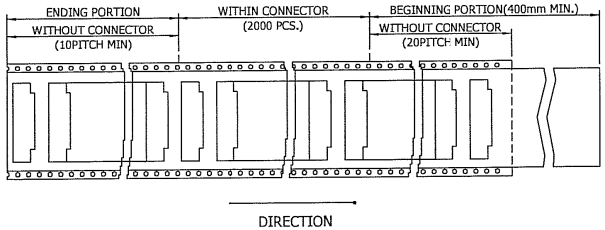
D VIEW DETAIL



C-C SECTION

NOTE :

1. SUFFIX "-E2000" OF THE PART NUMBER INDICATES THAT 2000 PCS. OF EFC-PT24-S***H2A-**Z CONNECTORS ARE ACCOMMODATED IN ONE REEL.
2. THE LABEL IS TO BE ATTACHED ON THE MAGAZINE AS SHOWN.
3. REFER. TO THE DRAWING,76710U5*00Z(TITLE:EFC-PT24-S***H2A-**Z) FOR THE DIMENSIONS OF THE CONNECTOR.
4. PLEASE LOOK AT TABLE1 WITH THE DIMENSION OF A,B,C...ETC.



EFC-PT24-S* **H2A-**Z-E2000

- Plating Type: TABLE 1
- No. of Contacts: 04: 4 Pin ... 60: 60 Pin
- Contact Configuration U:Slide Type,Up-side contact D:Slide Type,Down-side contact

TABLE 1

No.	Part Name	CONTACT AREA	TERMINAL AREA
		CONTACT FINISH	
3	EFC-PT24-S***H2A-31Z	Sn Over Ni	Sn Over Ni
2	EFC-PT24-S***H2A-44Z	Au Over Ni	Au Over Ni
1	EFC-PT24-S***H2A-54Z	Au Over Ni	Sn Over Ni

NO.	DESCRIPTION	QUANTITY	MATERIAL	FINISH	REMARKS
4	REEL	1	——	——	
3	COVER-TAPE	——	PET	——	
2	CARRIER-TAPE	——	PS	——	
1	CONNECTOR	2000	——	——	76710U5*00Z

GENERAL TOLERANCE		DATE	2005.10.03	UNIT	mm	DRAWER	Duke	SERIES	EFC-PT24	EXCEL CELL ELECTRONIC CO., LTD.
X	——	SCALE	1:1			CHECKER	Alden	TITLE	EFC-PT24-S***H2A -**Z-E2000	DRAWING NO. 76710U0100Z
X.X	±0.2	ASSEMBLY No.	76710A0100Z			APPROVER	Marlon			
X.XX	±0.1	REFERENCE				FRAME	A3	REVISION	4	SH. 1 OF 2
ANGLE	±3°									

REV.	DATE	MOD. NO.	DESCRIPTION	DRA.	CHE.	APP.
3	2007.07.09	F0707403	ADD. POSITION NUMBER	Huiru	Alden	Marlon
4	2007.12.14	F0712404	MODIFY TABLE 2	Huiru	Alden	Marlon

TABLE 2 4

NO.	PART NAME	PART NUMBER	A	B	C	D	E	F	G
4	EFC-PT24-S*04H2A-312-E0000	76710U*043102	2.8	9.6	——	24	20.1	29.5	24.5
	EFC-PT24-S*04H2A-442-E0000	76710U*044402							
	EFC-PT24-S*04H2A-542-E0000	76710U*045402							
5	EFC-PT24-S*05H2A-312-E0000	76710U*053102	2.8	9.6	——	24	20.1	29.5	24.5
	EFC-PT24-S*05H2A-442-E0000	76710U*054402							
	EFC-PT24-S*05H2A-542-E0000	76710U*055402							
6	EFC-PT24-S*06H2A-312-E0000	76710U*063102	3.8	10.6	——	24	20.1	29.5	24.5
	EFC-PT24-S*06H2A-442-E0000	76710U*064402							
	EFC-PT24-S*06H2A-542-E0000	76710U*065402							
7	EFC-PT24-S*07H2A-312-E0000	76710U*073102	3.8	10.6	——	24	20.1	29.5	24.5
	EFC-PT24-S*07H2A-442-E0000	76710U*074402							
	EFC-PT24-S*07H2A-542-E0000	76710U*075402							
8	EFC-PT24-S*08H2A-312-E0000	76710U*083102	4.8	11.6	——	24	20.1	29.5	24.5
	EFC-PT24-S*08H2A-442-E0000	76710U*084402							
	EFC-PT24-S*08H2A-542-E0000	76710U*085402							
9	EFC-PT24-S*09H2A-312-E0000	76710U*093102	4.8	11.6	——	24	20.1	29.5	24.5
	EFC-PT24-S*09H2A-442-E0000	76710U*094402							
	EFC-PT24-S*09H2A-542-E0000	76710U*095402							
10	EFC-PT24-S*10H2A-312-E0000	76710U*103102	5.8	12.6	——	24	20.1	29.5	24.5
	EFC-PT24-S*10H2A-442-E0000	76710U*104402							
	EFC-PT24-S*10H2A-542-E0000	76710U*105402							
11	EFC-PT24-S*11H2A-312-E0000	76710U*113102	5.8	12.6	——	24	20.1	29.5	24.5
	EFC-PT24-S*11H2A-442-E0000	76710U*114402							
	EFC-PT24-S*11H2A-542-E0000	76710U*115402							
12	EFC-PT24-S*12H2A-312-E0000	76710U*123102	6.8	13.6	——	24	20.1	29.5	24.5
	EFC-PT24-S*12H2A-442-E0000	76710U*124402							
	EFC-PT24-S*12H2A-542-E0000	76710U*125402							
13	EFC-PT24-S*13H2A-312-E0000	76710U*133102	6.8	13.6	——	24	20.1	29.5	24.5
	EFC-PT24-S*13H2A-442-E0000	76710U*134402							
	EFC-PT24-S*13H2A-542-E0000	76710U*135402							
14	EFC-PT24-S*14H2A-312-E0000	76710U*143102	7.8	14.6	——	24	20.1	29.5	24.5
	EFC-PT24-S*14H2A-442-E0000	76710U*144402							
	EFC-PT24-S*14H2A-542-E0000	76710U*145402							
15	EFC-PT24-S*15H2A-312-E0000	76710U*153102	7.8	14.6	——	24	20.1	29.5	24.5
	EFC-PT24-S*15H2A-442-E0000	76710U*154402							
	EFC-PT24-S*15H2A-542-E0000	76710U*155402							
16	EFC-PT24-S*16H2A-312-E0000	76710U*163102	8.8	15.6	——	24	20.1	29.5	24.5
	EFC-PT24-S*16H2A-442-E0000	76710U*164402							
	EFC-PT24-S*16H2A-542-E0000	76710U*165402							
17	EFC-PT24-S*17H2A-312-E0000	76710U*173102	8.8	15.6	——	24	20.1	29.5	24.5
	EFC-PT24-S*17H2A-442-E0000	76710U*174402							
	EFC-PT24-S*17H2A-542-E0000	76710U*175402							
18	EFC-PT24-S*18H2A-312-E0000	76710U*183102	9.8	16.6	28.4	32	23	37.5	32.5
	EFC-PT24-S*18H2A-442-E0000	76710U*184402							
	EFC-PT24-S*18H2A-542-E0000	76710U*185402							
19	EFC-PT24-S*19H2A-312-E0000	76710U*193102	9.8	16.6	28.4	32	23	37.5	32.5
	EFC-PT24-S*19H2A-442-E0000	76710U*194402							
	EFC-PT24-S*19H2A-542-E0000	76710U*195402							
20	EFC-PT24-S*20H2A-312-E0000	76710U*203102	10.8	17.6	28.4	32	23	37.5	32.5
	EFC-PT24-S*20H2A-442-E0000	76710U*204402							
	EFC-PT24-S*20H2A-542-E0000	76710U*205402							
21	EFC-PT24-S*21H2A-312-E0000	76710U*213102	10.8	17.6	28.4	32	23	37.5	32.5
	EFC-PT24-S*21H2A-442-E0000	76710U*214402							
	EFC-PT24-S*21H2A-542-E0000	76710U*215402							
22	EFC-PT24-S*22H2A-312-E0000	76710U*223102	11.8	18.6	28.4	32	23	37.5	32.5
	EFC-PT24-S*22H2A-442-E0000	76710U*224402							
	EFC-PT24-S*22H2A-542-E0000	76710U*225402							

NO.	PART NAME	PART NUMBER	A	B	C	D	E	F	G
23	EFC-PT24-S*23H2A-312-E0000	76710U*233102	11.8	18.6	28.4	32	23	37.5	32.5
	EFC-PT24-S*23H2A-442-E0000	76710U*234402							
	EFC-PT24-S*23H2A-542-E0000	76710U*235402							
24	EFC-PT24-S*24H2A-312-E0000	76710U*243102	12.8	19.6	28.4	32	23	37.5	32.5
	EFC-PT24-S*24H2A-442-E0000	76710U*244402							
	EFC-PT24-S*24H2A-542-E0000	76710U*245402							
25	EFC-PT24-S*25H2A-312-E0000	76710U*253102	12.8	19.6	28.4	32	23	37.5	32.5
	EFC-PT24-S*25H2A-442-E0000	76710U*254402							
	EFC-PT24-S*25H2A-542-E0000	76710U*255402							
26	EFC-PT24-S*26H2A-312-E0000	76710U*263102	13.8	20.6	28.4	32	23	37.5	32.5
	EFC-PT24-S*26H2A-442-E0000	76710U*264402							
	EFC-PT24-S*26H2A-542-E0000	76710U*265402							
27	EFC-PT24-S*27H2A-312-E0000	76710U*273102	13.8	20.6	28.4	32	23	37.5	32.5
	EFC-PT24-S*27H2A-442-E0000	76710U*274402							
	EFC-PT24-S*27H2A-542-E0000	76710U*275402							
28	EFC-PT24-S*28H2A-312-E0000	76710U*283102	14.8	21.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*28H2A-442-E0000	76710U*284402							
	EFC-PT24-S*28H2A-542-E0000	76710U*285402							
29	EFC-PT24-S*29H2A-312-E0000	76710U*293102	14.8	21.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*29H2A-442-E0000	76710U*294402							
	EFC-PT24-S*29H2A-542-E0000	76710U*295402							
30	EFC-PT24-S*30H2A-312-E0000	76710U*303102	15.8	22.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*30H2A-442-E0000	76710U*304402							
	EFC-PT24-S*30H2A-542-E0000	76710U*305402							
31	EFC-PT24-S*31H2A-312-E0000	76710U*313102	15.8	22.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*31H2A-442-E0000	76710U*314402							
	EFC-PT24-S*31H2A-542-E0000	76710U*315402							
32	EFC-PT24-S*32H2A-312-E0000	76710U*323102	16.8	23.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*32H2A-442-E0000	76710U*324402							
	EFC-PT24-S*32H2A-542-E0000	76710U*325402							
33	EFC-PT24-S*33H2A-312-E0000	76710U*333102	16.8	23.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*33H2A-442-E0000	76710U*334402							
	EFC-PT24-S*33H2A-542-E0000	76710U*335402							
34	EFC-PT24-S*34H2A-312-E0000	76710U*343102	17.8	24.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*34H2A-442-E0000	76710U*344402							
	EFC-PT24-S*34H2A-542-E0000	76710U*345402							
35	EFC-PT24-S*35H2A-312-E0000	76710U*353102	17.8	24.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*35H2A-442-E0000	76710U*354402							
	EFC-PT24-S*35H2A-542-E0000	76710U*355402							
36	EFC-PT24-S*36H2A-312-E0000	76710U*363102	18.8	25.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*36H2A-442-E0000	76710U*364402							
	EFC-PT24-S*36H2A-542-E0000	76710U*365402							
37	EFC-PT24-S*37H2A-312-E0000	76710U*373102	18.8	25.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*37H2A-442-E0000	76710U*374402							
	EFC-PT24-S*37H2A-542-E0000	76710U*375402							
38	EFC-PT24-S*38H2A-312-E0000	76710U*383102	19.8	26.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*38H2A-442-E0000	76710U*384402							
	EFC-PT24-S*38H2A-542-E0000	76710U*385402							
39	EFC-PT24-S*39H2A-312-E0000	76710U*393102	19.8	26.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*39H2A-442-E0000	76710U*394402							
	EFC-PT24-S*39H2A-542-E0000	76710U*395402							
40	EFC-PT24-S*40H2A-312-E0000	76710U*403102	20.8	27.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*40H2A-442-E0000	76710U*404402							
	EFC-PT24-S*40H2A-542-E0000	76710U*405402							
41	EFC-PT24-S*41H2A-312-E0000	76710U*413102	20.8	27.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*41H2A-442-E0000	76710U*414402							
	EFC-PT24-S*41H2A-542-E0000	76710U*415402							

NO.	PART NAME	PART NUMBER	A	B	C	D	E	F	G
42	EFC-PT24-S*42H2A-312-E0000	76710U*423102	21.8	28.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*42H2A-442-E0000	76710U*424402							
	EFC-PT24-S*42H2A-542-E0000	76710U*425402							
43	EFC-PT24-S*43H2A-312-E0000	76710U*433102	21.8	28.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*43H2A-442-E0000	76710U*434402							
	EFC-PT24-S*43H2A-542-E0000	76710U*435402							
44	EFC-PT24-S*44H2A-312-E0000	76710U*443102	22.8	29.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*44H2A-442-E0000	76710U*444402							
	EFC-PT24-S*44H2A-542-E0000	76710U*445402							
45	EFC-PT24-S*45H2A-312-E0000	76710U*453102	22.8	29.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*45H2A-442-E0000	76710U*454402							
	EFC-PT24-S*45H2A-542-E0000	76710U*455402							
46	EFC-PT24-S*46H2A-312-E0000	76710U*463102	23.8	30.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*46H2A-442-E0000	76710U*464402							
	EFC-PT24-S*46H2A-542-E0000	76710U*465402							
47	EFC-PT24-S*47H2A-312-E0000	76710U*473102	23.8	30.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*47H2A-442-E0000	76710U*474402							
	EFC-PT24-S*47H2A-542-E0000	76710U*475402							
48	EFC-PT24-S*48H2A-312-E0000	76710U*483102	24.8	31.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*48H2A-442-E0000	76710U*484402							
	EFC-PT24-S*48H2A-542-E0000	76710U*485402							
49	EFC-PT24-S*49H2A-312-E0000	76710U*493102	24.8	31.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*49H2A-442-E0000	76710U*494402							
	EFC-PT24-S*49H2A-542-E0000	76710U*495402							
50	EFC-PT24-S*50H2A-312-E0000	76710U*503102	25.8	32.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*50H2A-442-E0000	76710U*504402							
	EFC-PT24-S*50H2A-542-E0000	76710U*505402							
51	EFC-PT24-S*51H2A-312-E0000	76710U*513102	25.8	32.6	40.4	44	35	49.5	44.5
	EFC-PT24-S*51H2A-442-E0000	76710U*514402							
	EFC-PT24-S*51H2A-542-E0000	76710U*515402							
52	EFC-PT24-S*52H2A-312-E0000	76710U*523102	26.8	33.6	52.4	56	46	61.5	56.5
	EFC-PT24-S*52H2A-442-E0000	76710U*524402							
	EFC-PT24-S*52H2A-542-E0000	76710U*525402							
53	EFC-PT24-S*53H2A-312-E0000	76710U*533102	26.8	33.6	52.4	56	46	61.5	56.5
	EFC-PT24-S*53H2A-442-E0000	76710U*534402							
	EFC-PT24-S*53H2A-542-E0000	76710U*535402							
54	EFC-PT24-S*54H2A-312-E0000	76710U*543102	27.8	34.6	52.4	56	46	61.5	56.5
	EFC-PT24-S*54H2A-442-E0000	76710U*544402							
	EFC-PT24-S*54H2A-542-E0000	76710U*545402							
55	EFC-PT24-S*55H2A-312-E0000	76710U*553102	27.8	34.6	52.4	56	46	61.5	56.5
	EFC-PT24-S*55H2A-442-E0000	76710U*554402							
	EFC-PT24-S*55H2A-542-E0000	76710U*555402							
56	EFC-PT24-S*56H2A-312-E0000	76710U*563102	28.8	35.6	52.4	56	46	61.5	56.5
	EFC-PT24-S*56H2A-442-E0000	76710U*564402							
	EFC-PT24-S*56H2A-542-E0000	76710U*565402							
57	EFC-PT24-S*57H2A-312-E0000	76710U*573102	28.8	35.6	52.4	56	46	61.5	56.5
	EFC-PT24-S*57H2A-442-E0000	76710U*574402							
	EFC-PT24-S*57H2A-542-E0000	76710U*575402							
58	EFC-PT24-S*58H2A-312-E0000	76710U*583102	29.8	36.6	52.4	56	46	61.5	56.5
	EFC-PT24-S*58H2A-442-E0000	76710U*584402							
	EFC-PT24-S*58H2A-542-E0000	76710U*585402							
59	EFC-PT24-S*59H2A-312-E0000	76710U*593102	29.8	36.6	52.4	56	46	61.5	56.5
	EFC-PT24-S*59H2A-442-E0000	76710U*594402							
	EFC-PT24-S*59H2A-542-E0000	76710U*595402							
60	EFC-PT24-S*60H2A-312-E0000	76710U*603102	30.8	37.6	52.4	56	46	61.5	56.5
	EFC-PT24-S*60H2A-442-E0000	76710U*604402							
	EFC-PT24-S*60H2A-542-E0000	76710U*605402							

NOTE:

	*	*
PART NAME	U	D
PART NUMBER	1	2

GENERAL TOLERANCE
X ——
X.X ± 0.2
X.XX ± 0.1
ANGLE ± 3°

DATE	2005.10.03	UNIT	mm
SCALE	1:1		
ASSEMBLY No.	76710A0100Z		
REFERENCE			

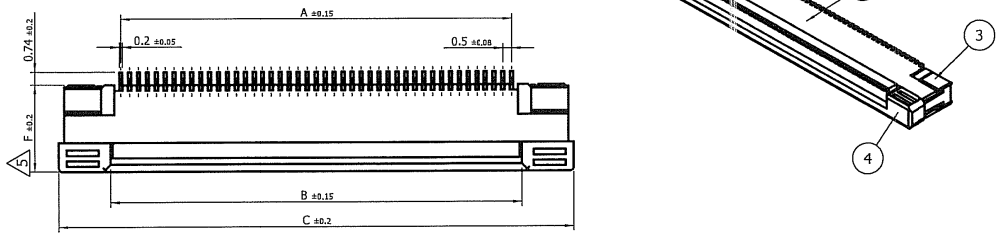
DRAWER	Duke
CHECKER	Alden
APPROVER	Marlon

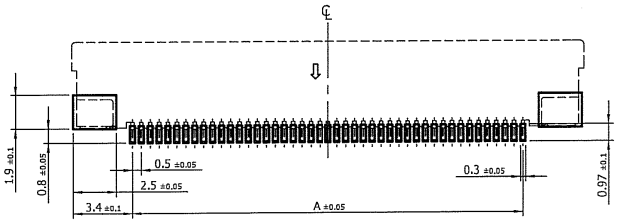
SERIES	EFC-PT24
TITLE	EFC-PT24-S**H2A -**Z-E2000
DRAWING NO.	76710U0100Z
FRAME	A3
REVISION	4
SH.	2 OF 2

EXCEL CELL ELECTRONIC CO., LTD.

Title Block.品號(Number):CNG5231XXXXXXXXXXR00;D003
Title Block.Lifecycle Phase:Approval
鄭雅菁[Doris], 台中廠國外業務部歐洲課副課 (w060007)
2020-06-03 13:24:06

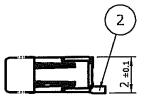
REV.	DATE	MOD. NO.	DESCRIPTION	DRA.	CHE.	APP.
5	2008.08.14	F0808401	MODIFY TABLE2	Huiru	Alden	Marlon
6	2008.10.13	F0810406	ADD. NOTE	Huiru	Alden	Marlon

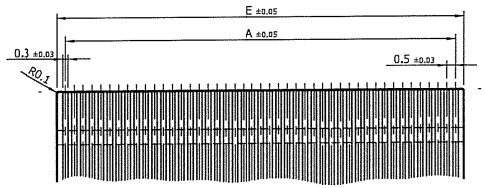




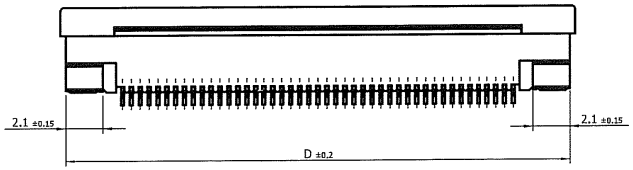
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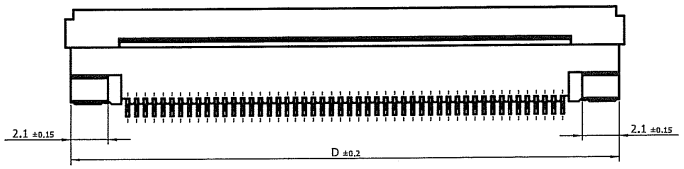
$0.3^{+0.05}_{-0.02}$ THICK
APPLICABLE FPC (REF.)



NOTE: 4~49 CONNECTORS

TABLE 1

No.	Part Name	CONTACT AREA	TERMINAL AREA
		CONTACT FINISH	
3	EFC-PT24-SU**H2A-31Z	Sn Over Ni	Sn Over Ni
2	EFC-PT24-SU**H2A-44Z	Au Over Ni	Au Over Ni
1	EFC-PT24-SU**H2A-54Z	Au Over Ni	Sn Over Ni



NOTE: 50~60 CONNECTORS

NO.	Description	Quantity	Material	Finish	Remark
4	SLIDER	1	High Temp. Thermoplastic	——	
3	HOLD DOWN	2	COPPER ALLOY	Sn OVER NICKEL	
2	CONTACT	TABLE 2	COPPER ALLOY	TABLE 1	
1	INSULATOR	1	High Temp. Thermoplastic	——	

GENERAL TOLERANCE		DATE	2005.09.02	UNIT	mm	DRAWER	Duke	SERIES	EFC-PT24	EXCEL CELL ELECTRONIC CO., LTD.
X.	——	SCALE	4:1			CHECKER	Alden	TITLE	EFC-PT24-SU**H2A-**Z	
X.X	± 0.2	ASSEMBLY No.	76710A5100Z			APPROVER	Marlon	DRAWING NO.	76710U5100Z	
X.XX	± 0.1	REFERENCE				FRAME	A3	REVISION	6	SH. 1 OF 2
ANGLE	± 3°									

first FC components
FIRST Components s.r.l. Via Cavour, 69 21020 Buguggiate (VA) Italy Tel. +39 0332 1888005 Fax +39 0332 320856
web: www.first-components.com

鄭雅菁[Doris], 台中廠國外業務部歐洲課副課 (w060007) 2020-06-03 13:24:09

REV.	DATE	MOD. NO.	DESCRIPTION	DRA.	CHE.	APP.
5	2008.08.14	F0808401	MODIFY TABLE2	Huiru	Alden	Marlon
6	2008.10.13	F0810406	ADD. NOTE	Huiru	Alden	Marlon

TABLE 2 5

NO.	PART NAME	PART NUMBER	A	B	C	D	E	F
4	EFC-PT24-SU04H2A-31Z	76710510431OZ	1.5	2.65	8.5	7.91	2.45	4.86
	EFC-PT24-SU04H2A-44Z	76710510444OZ						
	EFC-PT24-SU04H2A-54Z	76710510454OZ						
5	EFC-PT24-SU05H2A-31Z	76710510531OZ	2	3.15	9	8.41	2.95	4.86
	EFC-PT24-SU05H2A-44Z	76710510544OZ						
	EFC-PT24-SU05H2A-54Z	76710510554OZ						
6	EFC-PT24-SU06H2A-31Z	76710510631OZ	2.5	3.65	9.5	8.91	3.45	4.86
	EFC-PT24-SU06H2A-44Z	76710510644OZ						
	EFC-PT24-SU06H2A-54Z	76710510654OZ						
7	EFC-PT24-SU07H2A-31Z	76710510731OZ	3	4.15	10	9.41	3.95	4.86
	EFC-PT24-SU07H2A-44Z	76710510744OZ						
	EFC-PT24-SU07H2A-54Z	76710510754OZ						
8	EFC-PT24-SU08H2A-31Z	76710510831OZ	3.5	4.65	10.5	9.91	4.45	4.86
	EFC-PT24-SU08H2A-44Z	76710510844OZ						
	EFC-PT24-SU08H2A-54Z	76710510854OZ						
9	EFC-PT24-SU09H2A-31Z	76710510931OZ	4	5.15	11	10.41	4.95	4.86
	EFC-PT24-SU09H2A-44Z	76710510944OZ						
	EFC-PT24-SU09H2A-54Z	76710510954OZ						
10	EFC-PT24-SU10H2A-31Z	76710511031OZ	4.5	5.65	11.5	10.91	5.45	4.86
	EFC-PT24-SU10H2A-44Z	76710511044OZ						
	EFC-PT24-SU10H2A-54Z	76710511054OZ						
11	EFC-PT24-SU11H2A-31Z	76710511131OZ	5	6.15	12	11.41	5.95	4.86
	EFC-PT24-SU11H2A-44Z	76710511144OZ						
	EFC-PT24-SU11H2A-54Z	76710511154OZ						
12	EFC-PT24-SU12H2A-31Z	76710511231OZ	5.5	6.65	12.5	11.91	6.45	4.86
	EFC-PT24-SU12H2A-44Z	76710511244OZ						
	EFC-PT24-SU12H2A-54Z	76710511254OZ						
13	EFC-PT24-SU13H2A-31Z	76710511331OZ	6	7.15	13	12.41	6.95	4.86
	EFC-PT24-SU13H2A-44Z	76710511344OZ						
	EFC-PT24-SU13H2A-54Z	76710511354OZ						
14	EFC-PT24-SU14H2A-31Z	76710511431OZ	6.5	7.65	13.5	12.91	7.45	4.86
	EFC-PT24-SU14H2A-44Z	76710511444OZ						
	EFC-PT24-SU14H2A-54Z	76710511454OZ						
15	EFC-PT24-SU15H2A-31Z	76710511531OZ	7	8.15	14	13.41	7.95	4.86
	EFC-PT24-SU15H2A-44Z	76710511544OZ						
	EFC-PT24-SU15H2A-54Z	76710511554OZ						
16	EFC-PT24-SU16H2A-31Z	76710511631OZ	7.5	8.65	14.5	13.91	8.45	4.86
	EFC-PT24-SU16H2A-44Z	76710511644OZ						
	EFC-PT24-SU16H2A-54Z	76710511654OZ						
17	EFC-PT24-SU17H2A-31Z	76710511731OZ	8	9.15	15	14.41	8.95	4.86
	EFC-PT24-SU17H2A-44Z	76710511744OZ						
	EFC-PT24-SU17H2A-54Z	76710511754OZ						
18	EFC-PT24-SU18H2A-31Z	76710511831OZ	8.5	9.65	15.5	14.91	9.45	4.86
	EFC-PT24-SU18H2A-44Z	76710511844OZ						
	EFC-PT24-SU18H2A-54Z	76710511854OZ						
19	EFC-PT24-SU19H2A-31Z	76710511931OZ	9	10.15	16	15.41	9.95	4.86
	EFC-PT24-SU19H2A-44Z	76710511944OZ						
	EFC-PT24-SU19H2A-54Z	76710511954OZ						
20	EFC-PT24-SU20H2A-31Z	76710512031OZ	9.5	10.65	16.5	15.91	10.45	4.86
	EFC-PT24-SU20H2A-44Z	76710512044OZ						
	EFC-PT24-SU20H2A-54Z	76710512054OZ						
21	EFC-PT24-SU21H2A-31Z	76710512131OZ	10	11.15	17	16.41	10.95	4.86
	EFC-PT24-SU21H2A-44Z	76710512144OZ						
	EFC-PT24-SU21H2A-54Z	76710512154OZ						
22	EFC-PT24-SU22H2A-31Z	76710512231OZ	10.5	11.65	17.5	16.91	11.45	4.86
	EFC-PT24-SU22H2A-44Z	76710512244OZ						
	EFC-PT24-SU22H2A-54Z	76710512254OZ						
23	EFC-PT24-SU23H2A-31Z	76710512331OZ	11	12.15	18	17.41	11.95	4.86
	EFC-PT24-SU23H2A-44Z	76710512344OZ						
	EFC-PT24-SU23H2A-54Z	76710512354OZ						
24	EFC-PT24-SU24H2A-31Z	76710512431OZ	11.5	12.65	18.5	17.91	12.45	4.86
	EFC-PT24-SU24H2A-44Z	76710512444OZ						
	EFC-PT24-SU24H2A-54Z	76710512454OZ						
25	EFC-PT24-SU25H2A-31Z	76710512531OZ	12	13.15	19	18.41	12.95	4.86
	EFC-PT24-SU25H2A-44Z	76710512544OZ						
	EFC-PT24-SU25H2A-54Z	76710512554OZ						
26	EFC-PT24-SU26H2A-31Z	76710512631OZ	12.5	13.65	19.5	18.91	13.45	4.86
	EFC-PT24-SU26H2A-44Z	76710512644OZ						
	EFC-PT24-SU26H2A-54Z	76710512654OZ						
27	EFC-PT24-SU27H2A-31Z	76710512731OZ	13	14.15	20	19.41	13.95	4.86
	EFC-PT24-SU27H2A-44Z	76710512744OZ						
	EFC-PT24-SU27H2A-54Z	76710512754OZ						
28	EFC-PT24-SU28H2A-31Z	76710512831OZ	13.5	14.65	20.5	19.91	14.45	4.86
	EFC-PT24-SU28H2A-44Z	76710512844OZ						
	EFC-PT24-SU28H2A-54Z	76710512854OZ						
29	EFC-PT24-SU29H2A-31Z	76710512931OZ	14	15.15	21	20.41	14.95	4.86
	EFC-PT24-SU29H2A-44Z	76710512944OZ						
	EFC-PT24-SU29H2A-54Z	76710512954OZ						
30	EFC-PT24-SU30H2A-31Z	76710513031OZ	14.5	15.65	21.5	20.91	15.45	4.86
	EFC-PT24-SU30H2A-44Z	76710513044OZ						
	EFC-PT24-SU30H2A-54Z	76710513054OZ						
31	EFC-PT24-SU31H2A-31Z	76710513131OZ	15	16.15	22	21.41	15.95	4.86
	EFC-PT24-SU31H2A-44Z	76710513144OZ						
	EFC-PT24-SU31H2A-54Z	76710513154OZ						
32	EFC-PT24-SU32H2A-31Z	76710513231OZ	15.5	16.65	22.5	21.91	16.45	4.86
	EFC-PT24-SU32H2A-44Z	76710513244OZ						
	EFC-PT24-SU32H2A-54Z	76710513254OZ						
33	EFC-PT24-SU33H2A-31Z	76710513331OZ	16	17.15	23	22.41	16.95	4.86
	EFC-PT24-SU33H2A-44Z	76710513344OZ						
	EFC-PT24-SU33H2A-54Z	76710513354OZ						
34	EFC-PT24-SU34H2A-31Z	76710513431OZ	16.5	17.65	23.5	22.91	17.45	4.86
	EFC-PT24-SU34H2A-44Z	76710513444OZ						
	EFC-PT24-SU34H2A-54Z	76710513454OZ						
35	EFC-PT24-SU35H2A-31Z	76710513531OZ	17	18.15	24	23.41	17.95	4.86
	EFC-PT24-SU35H2A-44Z	76710513544OZ						
	EFC-PT24-SU35H2A-54Z	76710513554OZ						
36	EFC-PT24-SU36H2A-31Z	76710513631OZ	17.5	18.65	24.5	23.91	18.45	4.86
	EFC-PT24-SU36H2A-44Z	76710513644OZ						
	EFC-PT24-SU36H2A-54Z	76710513654OZ						
37	EFC-PT24-SU37H2A-31Z	76710513731OZ	18	19.15	25	24.41	18.95	4.86
	EFC-PT24-SU37H2A-44Z	76710513744OZ						
	EFC-PT24-SU37H2A-54Z	76710513754OZ						
38	EFC-PT24-SU38H2A-31Z	76710513831OZ	18.5	19.65	25.5	24.91	19.45	4.86
	EFC-PT24-SU38H2A-44Z	76710513844OZ						
	EFC-PT24-SU38H2A-54Z	76710513854OZ						
39	EFC-PT24-SU39H2A-31Z	76710513931OZ	19	20.15	26	25.41	19.95	4.86
	EFC-PT24-SU39H2A-44Z	76710513944OZ						
	EFC-PT24-SU39H2A-54Z	76710513954OZ						
40	EFC-PT24-SU40H2A-31Z	76710514031OZ	19.5	20.65	26.5	25.91	20.45	4.86
	EFC-PT24-SU40H2A-44Z	76710514044OZ						
	EFC-PT24-SU40H2A-54Z	76710514054OZ						
41	EFC-PT24-SU41H2A-31Z	76710514131OZ	20	21.15	27	26.41	20.95	4.86
	EFC-PT24-SU41H2A-44Z	76710514144OZ						
	EFC-PT24-SU41H2A-54Z	76710514154OZ						
42	EFC-PT24-SU42H2A-31Z	76710514231OZ	20.5	21.65	27.5	26.91	21.45	4.86
	EFC-PT24-SU42H2A-44Z	76710514244OZ						
	EFC-PT24-SU42H2A-54Z	76710514254OZ						
43	EFC-PT24-SU43H2A-31Z	76710514331OZ	21	22.15	28	27.41	21.95	4.86
	EFC-PT24-SU43H2A-44Z	76710514344OZ						
	EFC-PT24-SU43H2A-54Z	76710514354OZ						
44	EFC-PT24-SU44H2A-31Z	76710514431OZ	21.5	22.65	28.5	27.91	22.45	4.86
	EFC-PT24-SU44H2A-44Z	76710514444OZ						
	EFC-PT24-SU44H2A-54Z	76710514454OZ						
45	EFC-PT24-SU45H2A-31Z	76710514531OZ	22	23.15	29	28.41	22.95	4.86
	EFC-PT24-SU45H2A-44Z	76710514544OZ						
	EFC-PT24-SU45H2A-54Z	76710514554OZ						
46	EFC-PT24-SU46H2A-31Z	76710514631OZ	22.5	23.65	29.5	28.91	23.45	4.86
	EFC-PT24-SU46H2A-44Z	76710514644OZ						
	EFC-PT24-SU46H2A-54Z	76710514654OZ						
47	EFC-PT24-SU47H2A-31Z	76710514731OZ	23	24.15	30	29.41	23.95	4.86
	EFC-PT24-SU47H2A-44Z	76710514744OZ						
	EFC-PT24-SU47H2A-54Z	76710514754OZ						
48	EFC-PT24-SU48H2A-31Z	76710514831OZ	23.5	24.65	30.5	29.91	24.45	4.86
	EFC-PT24-SU48H2A-44Z	76710514844OZ						
	EFC-PT24-SU48H2A-54Z	76710514854OZ						
49	EFC-PT24-SU49H2A-31Z	76710514931OZ	24	25.15	31	30.41	24.95	4.86
	EFC-PT24-SU49H2A-44Z	76710514944OZ						
	EFC-PT24-SU49H2A-54Z	76710514954OZ						
50	EFC-PT24-SU50H2A-31Z	76710515031OZ	24.5	25.65	31.5	30.91	25.45	4.86
	EFC-PT24-SU50H2A-44Z	76710515044OZ						
	EFC-PT24-SU50H2A-54Z	76710515054OZ						
51	EFC-PT24-SU51H2A-31Z	76710515131OZ	25	26.15	32	31.41	25.95	5.36
	EFC-PT24-SU51H2A-44Z	76710515144OZ						
	EFC-PT24-SU51H2A-54Z	76710515154OZ						
52	EFC-PT24-SU52H2A-31Z	76710515231OZ	25.5	26.65	32.5	31.91	26.45	5.36
	EFC-PT24-SU52H2A-44Z	76710515244OZ						
	EFC-PT24-SU52H2A-54Z	76710515254OZ						
53	EFC-PT24-SU53H2A-31Z	76710515331OZ	26	27.15	33	32.41	26.95	5.36
	EFC-PT24-SU53H2A-44Z	76710515344OZ						
	EFC-PT24-SU53H2A-54Z	76710515354OZ						
54	EFC-PT24-SU54H2A-31Z	76710515431OZ	26.5	27.65	33.5	32.91	27.45	5.36
	EFC-PT24-SU54H2A-44Z	76710515444OZ						
	EFC-PT24-SU54H2A-54Z	76710515454OZ						
55	EFC-PT24-SU55H2A-31Z	76710515531OZ	27	28.15	34	33.41	27.95	5.36
	EFC-PT24-SU55H2A-44Z	76710515544OZ						
	EFC-PT24-SU55H2A-54Z	76710515554OZ						
56	EFC-PT24-SU56H2A-31Z	76710515631OZ	27.5	28.65	34.5	33.91	28.45	5.36
	EFC-PT24-SU56H2A-44Z	76710515644OZ						
	EFC-PT24-SU56H2A-54Z	76710515654OZ						
57	EFC-PT24-SU57H2A-31Z	76710515731OZ	28	29.15	35	34.41	28.95	5.36
	EFC-PT24-SU57H2A-44Z	76710515744OZ						
	EFC-PT24-SU57H2A-54Z	76710515754OZ						
58	EFC-PT24-SU58H2A-31Z	76710515831OZ	28.5	29.65	35.5	34.91	29.45	5.36
	EFC-PT24-SU58H2A-44Z	76710515844OZ						
	EFC-PT24-SU58H2A-54Z	76710515854OZ						
59	EFC-PT24-SU59H2A-31Z	76710515931OZ	29	30.15	36	35.41	29.95	5.36
	EFC-PT24-SU59H2A-44Z	76710515944OZ						
	EFC-PT24-SU59H2A-54Z	76710515954OZ						
60	EFC-PT24-SU60H2A-31Z	76710516031OZ	29.5	30.65	36.5	35.91	30.45	5.36
	EFC-PT24-SU60H2A-44Z	76710516044OZ						
	EFC-PT24-SU60H2A-54Z	76710516054OZ						

GENERAL TOLERANCE	DATE	2005.09.02	UNIT	mm	DRAWER	Duke	SERIES EFC-PT24
X. ——	SCALE	4:1			CHECKER	Alden	TITLE EFC-PT24-SU**H2A-**Z
X.X ± 0.2	ASSEMBLY No.	76710A5100Z			APPROVER	Marlon	EXCEL CELL ELECTRONIC CO., LTD. (An ISO 9001&14001 Company)
X.XX ± 0.1	REFERENCE						DRAWING NO. 76710U5100Z
ANGLE ± 3°					FRAME	A3	REVISION 6 SH. 2 OF 2

Title Block.品號(Number):CNG5231XXXXXXXXXR10D003 Title Block.Lifecycle Phase:Approval

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: TWN0933574

Original Approval: 4 May 2000

Current Certificate: 12 November 2008

Certificate Expiry: 31 October 2011

Issued by: Lloyd's Register Inspection Limited Taiwan Branch for and on behalf of Lloyd's Register Quality Assurance Limited

UKAS QUALITY MANAGEMENT
001

This document is subject to the provision on the reverse
Rm. 806, 8Fl. Worldwide House, 129 Min-Sheng East Road, Sec. 3, Taipei, Taiwan.
This approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQA.
71 Fenchurch Street, London EC3M 4BS, UK
The use of the UKAS Accreditation Mark indicates Accreditation in respect of those activities covered by the Accreditation Certificate Number 001
Macro Revision 13

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 Environmental Assurance to the following Environmental Management System Standards:

ISO 14001:2004

The Environmental Management System is applicable to:

Design and manufacture of electromechanical 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: TWN0200203

Original Approval: 22 June 2000

Current Certificate: 6 July 2006

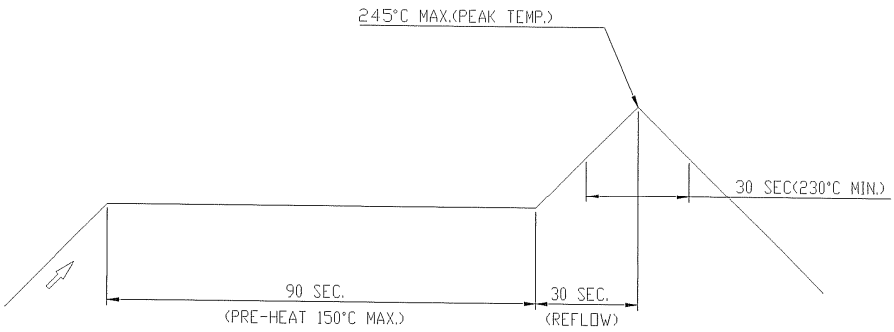
Certificate Expiry: 30 June 2009

Issued by: LRQA Taipei

UKAS ENVIRONMENTAL MANAGEMENT
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
Macro rev 4.0

Infrared Reflow Conditions



TEMPERATURE CONDITION GRAPH
(TEMPERATURE ON NOARD PATTERN SIDE)