EXCEL CELL ELECTRONIC CO. , LTD.	NO.		PAGE 1/2
SPECIFICATION	Edition	4	

1 mm Contact Spacing, ZIF Type Board To FPC Connectors
EFC-PM24 SERIES

FEATURES

- 1 mm contact spacing.
- No. of contacts : 4~32 pin.
- Connector Height : 2.7mm (H-Type),5.9mm (V-Type).
- Available in tube or embossed type for automatic mounting.

SPECIFICATIONS

1. ELECTRICAL

- Voltage rating : 200VAC
- Current rating : 0.5A
- Contact resistance : 20 mΩ max.(initial)
  40 mΩ max.(final)
- Insulation resistance : 100 MΩ min.

2.MECHANICAL

- Durability : Mate & Unmate with applicability for 20 times, Contact resistance: 20 mΩ max.(initial), 40 mΩ max.(final)
- Operating force (Slider): 0.2kgf*n (1.96N*n) max. (n : Pin)
- Cable holding force:0.05 kgf*n (0.49N*n) min. (n : Pin)
- Contact retention force: 0.5 kgf (4.9N) min.

MATERIALS

1. MATERIAL

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

2. PLATING

Contact:

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

Hold Down:

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

PACKING

1. Packing method

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

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

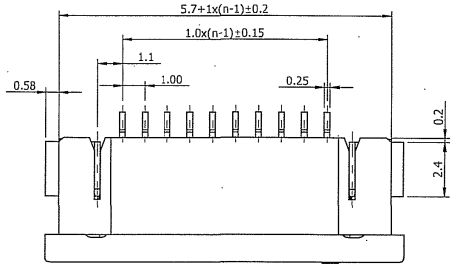
(1)Part NO. (2) Section.
(3) Lot NO. (4) Quantity.
(5) QC stamp. (6) Reprocess NO.
(7) ECE mark.

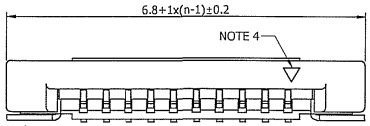
DRAWING

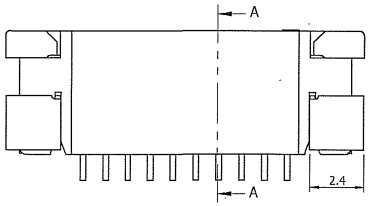
Main dimensions：see attached drawing.

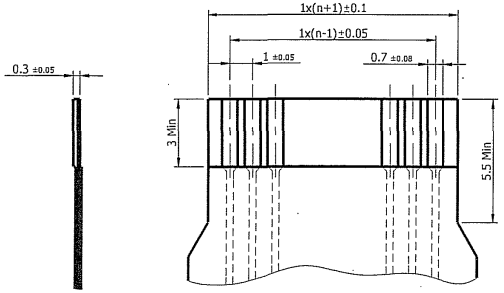
Title Block.品號(Number):CN36531XXXXXXXXXXR6010004
Title Block.Lifecycle Phase:Approval
張綾舫[Daphne], 台中廠國外業務部助理 (w100016)
2015-02-16 16:05:42

REV.	DATE	MOD. NO.	DESCRIPTION	DRA.	CHE.	APP.

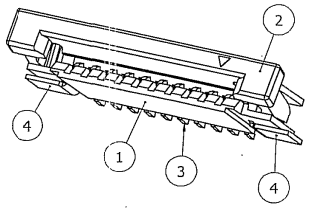


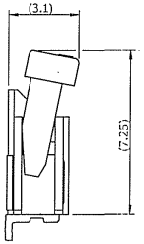




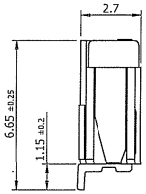


Accommodated FPC





UNLOCK



DESIGNATION

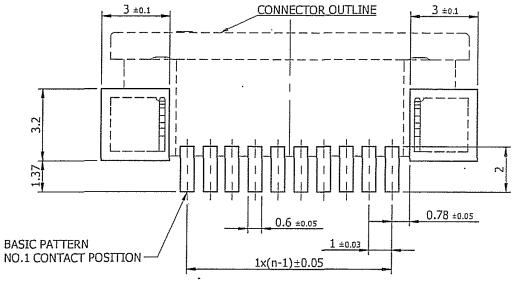
EFC-PM24-SD**H3-3Z

EFC:FFC\FPC
PM24: Series
SD: Contact configuration
D: Down-side
U: Up-side
**: No. of contacts
H3: Termination
H3: Righ angle
3Z:Tin Over Nickel

TABLE 1

CONTACTS	PART NUMBER	PART NAME
4	76766025204Z	EFC-PM24-SD04H3-3Z
5	76766025205Z	EFC-PM24-SD05H3-3Z
6	76766025206Z	EFC-PM24-SD06H3-3Z
7	76766025207Z	EFC-PM24-SD07H3-3Z
8	76766025208Z	EFC-PM24-SD08H3-3Z
9	76766025209Z	EFC-PM24-SD09H3-3Z
10	76766025210Z	EFC-PM24-SD10H3-3Z
11	76766025211Z	EFC-PM24-SD11H3-3Z
12	76766025212Z	EFC-PM24-SD12H3-3Z
13	76766025213Z	EFC-PM24-SD13H3-3Z
14	76766025214Z	EFC-PM24-SD14H3-3Z
15	76766025215Z	EFC-PM24-SD15H3-3Z
16	76766025216Z	EFC-PM24-SD16H3-3Z
17	76766025217Z	EFC-PM24-SD17H3-3Z

CONTACTS	PART NUMBER	PART NAME
18	76766025218Z	EFC-PM24-SD18H3-3Z
19	76766025219Z	EFC-PM24-SD19H3-3Z
20	76766025220Z	EFC-PM24-SD20H3-3Z
21	76766025221Z	EFC-PM24-SD21H3-3Z
22	76766025222Z	EFC-PM24-SD22H3-3Z
23	76766025223Z	EFC-PM24-SD23H3-3Z
24	76766025224Z	EFC-PM24-SD24H3-3Z
25	76766025225Z	EFC-PM24-SD25H3-3Z
26	76766025226Z	EFC-PM24-SD26H3-3Z
27	76766025227Z	EFC-PM24-SD27H3-3Z
28	76766025228Z	EFC-PM24-SD28H3-3Z
29	76766025229Z	EFC-PM24-SD29H3-3Z
30	76766025230Z	EFC-PM24-SD30H3-3Z
32	76766025232Z	EFC-PM24-SD32H3-3Z



P.C. BOARD PATTERN

NOTE:
1. PLATING:CONTACT & HOLD DOWN TIN OVER NICKEL.
2. 1.0mm FPC CONNECTOR AND FPC CABLE RETENTION FORCE, Min 1.80Kgf.
3. THE n IN BRACKETS INDICATED CONTACTS, THIS SERIES OFFER 4 TO 32 CONTACTS FOR CHOICE.
4. PIN ASSIGNMENT MARK.

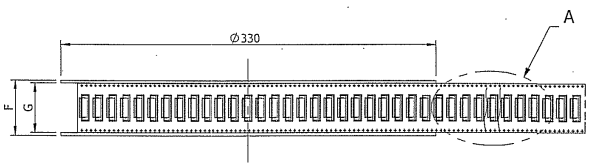
NO.	DESCRIPTION	QUANTITY	MATAERIAL	FINISH	REMARKS
4	HOLD DIWN	2	COPPER ALLOY	NOTE 1	
3	CONTACT	TABLE 1	COPPER ALLOY	NOTE 1	
2	SLIDE	1	HIGH TEMP. THERMOPLASTICS	-	UL 94V-0
1	INSUALTOR	1	HIGH TEMP. THERMOPLASTICS	-	UL 94V-0

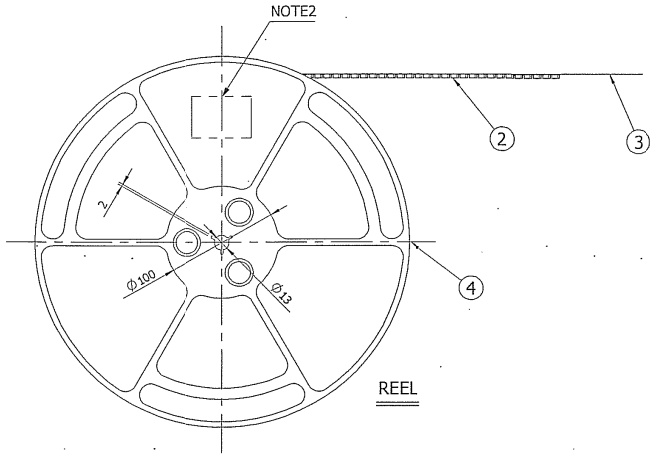
GENERAL TOLERANCE	DATE	2005.03.01	UNIT	mm	DRAWER: Alden
X. ——	SCALE	5:1			CHECKER:
X.X ±0.2	ASSEMBLY No.	7676602A5200Z			APPROVER: Marlon
X.XX ±0.1	REFERENCE				FRAME: A3
ANGLE ±3°	SERIES: EFC-PM24	TITLE: EFC-PM24-SD**H3-3Z	DRAWING NO.: 7676602U5200Z	REVISION: 1	SH.: 1 OF 1

EXCEL CELL ELECTRONIC CO., LTD.

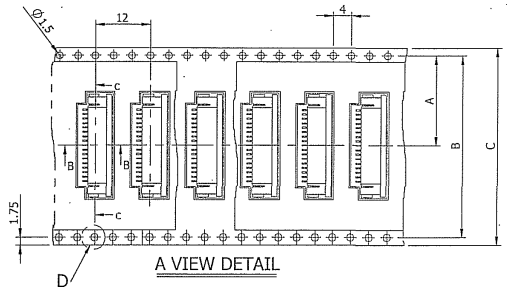
Title Block.品號(Number):CN36531XXXXXXXXXR6010004
Title Block.Lifecycle Phase:Approval
張綾舫[Daphne], 台中廠國外業務部助理 (w100016)
2015-02-16 16:05:42

REV.	DATE	MOD. NO.	DESCRIPTION	DRA.	CHE.	APP.

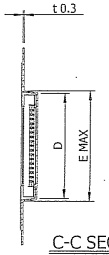




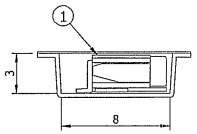
REEL



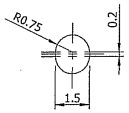
A VIEW DETAIL



C-C SECTION



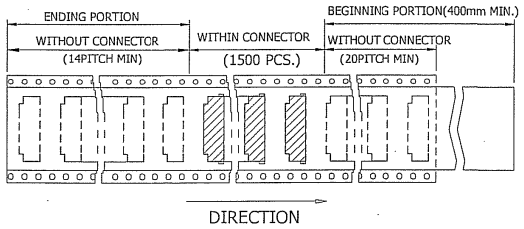
B-B SECTION



D VIEW DETAIL

Pos. No.	PARTNUMBER	PART NAME	A	B	C	E	F	G
4	7676602020 4Z	EFC-PM24-SD04H3-3Z-E1500	11.5	——	24	20.1	29.5	24.5
5	7676602020 5Z	EFC-PM24-SD05H3-3Z-E1500	11.5	——	24	20.1	29.5	24.5
6	7676602020 6Z	EFC-PM24-SD06H3-3Z-E1500	11.5	——	24	20.1	29.5	24.5
7	7676602020 7Z	EFC-PM24-SD07H3-3Z-E1500	11.5	——	24	20.1	29.5	24.5
8	7676602020 8Z	EFC-PM24-SD08H3-3Z-E1500	11.5	——	24	20.1	29.5	24.5
9	7676602020 9Z	EFC-PM24-SD09H3-3Z-E1500	11.5	——	24	20.1	29.5	24.5
10	7676602021 0Z	EFC-PM24-SD10H3-3Z-E1500	11.5	——	24	20.1	29.5	24.5
11	7676602021 1Z	EFC-PM24-SD11H3-3Z-E1500	11.5	——	24	20.1	29.5	24.5
12	7676602021 2Z	EFC-PM24-SD12H3-3Z-E1500	14.2	28.4	32	23	37.5	32.5
13	7676602021 3Z	EFC-PM24-SD13H3-3Z-E1500	14.2	28.4	32	23	37.5	32.5
14	7676602021 4Z	EFC-PM24-SD14H3-3Z-E1500	14.2	28.4	32	23	37.5	32.5
15	7676602021 5Z	EFC-PM24-SD15H3-3Z-E1500	14.2	28.4	32	23	37.5	32.5
16	7676602021 6Z	EFC-PM24-SD16H3-3Z-E1500	20.2	40.4	44	35	49.5	44.5
17	7676602021 7Z	EFC-PM24-SD17H3-3Z-E1500	20.2	40.4	44	35	49.5	44.5
18	7676602021 8Z	EFC-PM24-SD18H3-3Z-E1500	20.2	40.4	44	35	49.5	44.5
19	7676602021 9Z	EFC-PM24-SD19H3-3Z-E1500	20.2	40.4	44	35	49.5	44.5
20	7676602022 0Z	EFC-PM24-SD20H3-3Z-E1500	20.2	40.4	44	35	49.5	44.5
21	7676602022 1Z	EFC-PM24-SD21H3-3Z-E1500	20.2	40.4	44	35	49.5	44.5
22	7676602022 2Z	EFC-PM24-SD22H3-3Z-E1500	20.2	40.4	44	35	49.5	44.5
23	7676602022 3Z	EFC-PM24-SD23H3-3Z-E1500	20.2	40.4	44	35	49.5	44.5
24	7676602022 4Z	EFC-PM24-SD24H3-3Z-E1500	20.2	40.4	44	35	49.5	44.5
25	7676602022 5Z	EFC-PM24-SD25H3-3Z-E1500	20.2	40.4	44	35	49.5	44.5
26	7676602022 6Z	EFC-PM24-SD26H3-3Z-E1500	20.2	40.4	44	35	49.5	44.5
27	7676602022 7Z	EFC-PM24-SD27H3-3Z-E1500	20.2	40.4	44	35	49.5	44.5
28	7676602022 8Z	EFC-PM24-SD28H3-3Z-E1500	26.2	52.4	56	46	61.5	56.5
29	7676602022 9Z	EFC-PM24-SD29H3-3Z-E1500	26.2	52.4	56	46	61.5	56.5
30	7676602023 0Z	EFC-PM24-SD30H3-3Z-E1500	26.2	52.4	56	46	61.5	56.5
32	7676602023 2Z	EFC-PM24-SD32H3-3Z-E1500	26.2	52.4	56	46	61.5	56.5

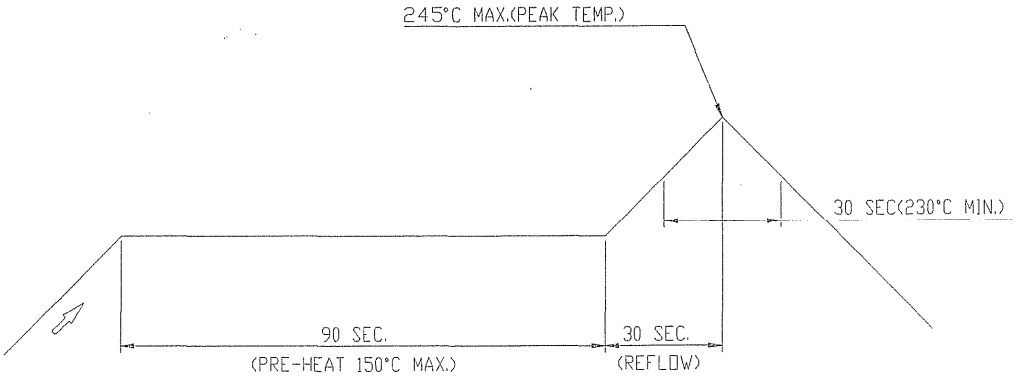
NOTE 1. SUFFIX "-E1500" OF THE PART NUMBER INDICATES THAT 1500 PCS. OF EFC-PM24-SD**H3-3Z CONNECTORS ARE ACCOMMODATED IN ONE REEL.
2. THE LABEL IS TO BE ATTACHED ON THE MAGAZINE AS SHOWN.
3. REFER. TO THE DRAWING, 7676602U5200Z(TITLE:EFC-PM24-SD**H3-3Z) FOR THE DIMENSIONS OF THE CONNECTOR.
4. PLEASE LOOK AT TABLE1 WITH THE DIMENSION OF A,B,C...ETC.



GENERAL TOLERANCE							
X.	——	DATE	2005.08.18	UNIT	mm	DRAWER	Alden
X.X	±0.2	SCALE	1:1			CHECKER	
X.XX	±0.1	ASSEMBLY No.	7676602A0200Z			APPROVER	Marlon
ANGLE	±3°	REFERENCE				FRAME	A3

SERIES	EFC-PM24	EXCEL CELL ELECTRONIC CO., LTD.
TITLE	EFC-PM24-SD**H3-3Z -E1500	DRAWING NO. 7576602U0200Z
REVISION	1	SH. 1 OF 1

Infrared Reflow Conditions



TEMPERATURE CONDITION GRAPH

(TEMPERATURE ON NOARD PATTERN SIDE)