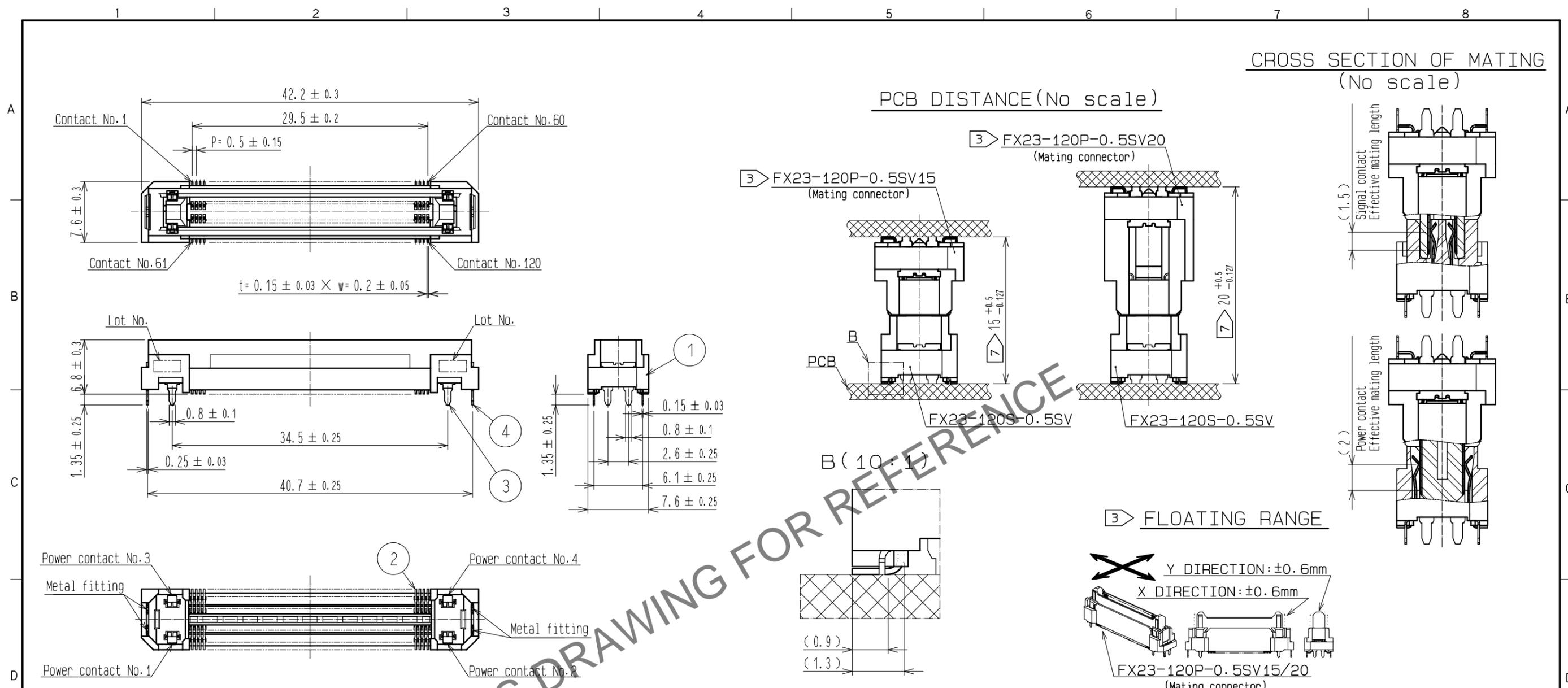
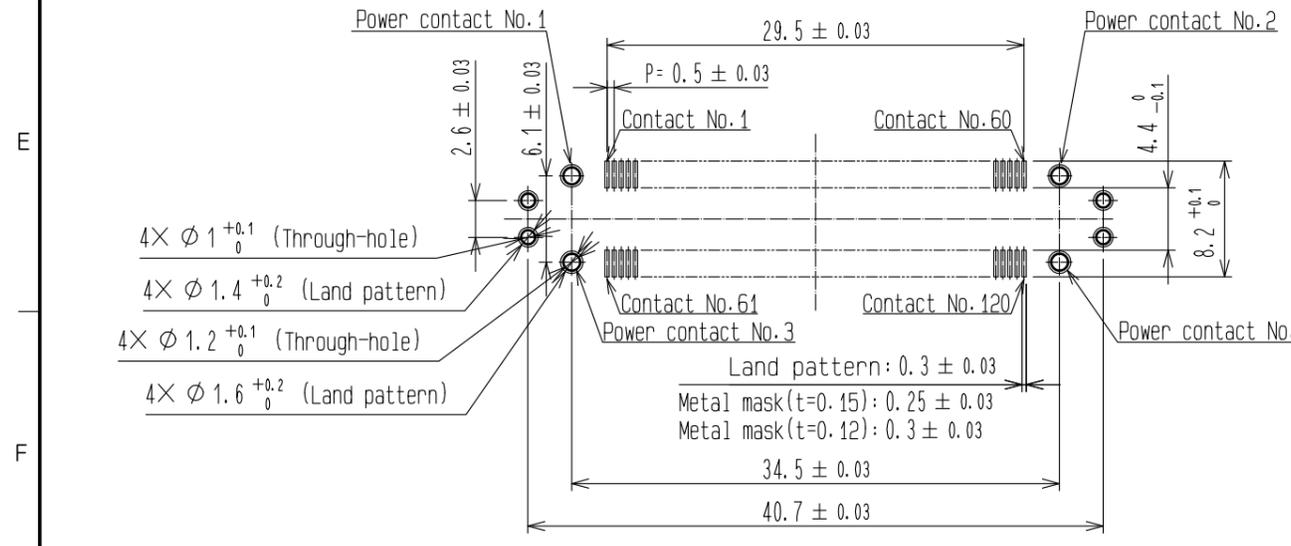


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CROSS SECTION OF MATING
(No scale)



RECOMMENDED LAND PATTERN DIMENSION OF PCB
(PCB THICKNESS: t=1.6mm)



- 1 Lead CO-Planarity is 0.1mm MAX.
- 2 This is packaged in embossed carrier tape. (400pcs/RL)
- 3 Floating range of this connector is ±0.6mm MAX.
The maximum cycle time of the floating operation is in accordance with the mating cycle of the connector.
- 4 It shows the vacuum pickup area. Remove the mylar tape before mating connectors.
- 5 Blemish and hit mark can be occurred through out the manufacturing process which doesn't affect quality level.
- 6 The dimensions in parentheses are for references.
- 7 Please use the connectors within the specified PCB distance.

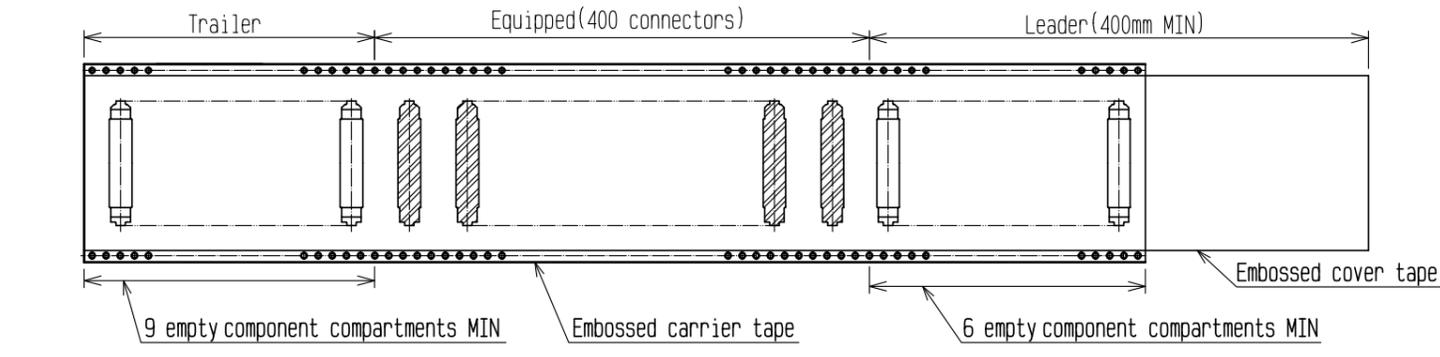
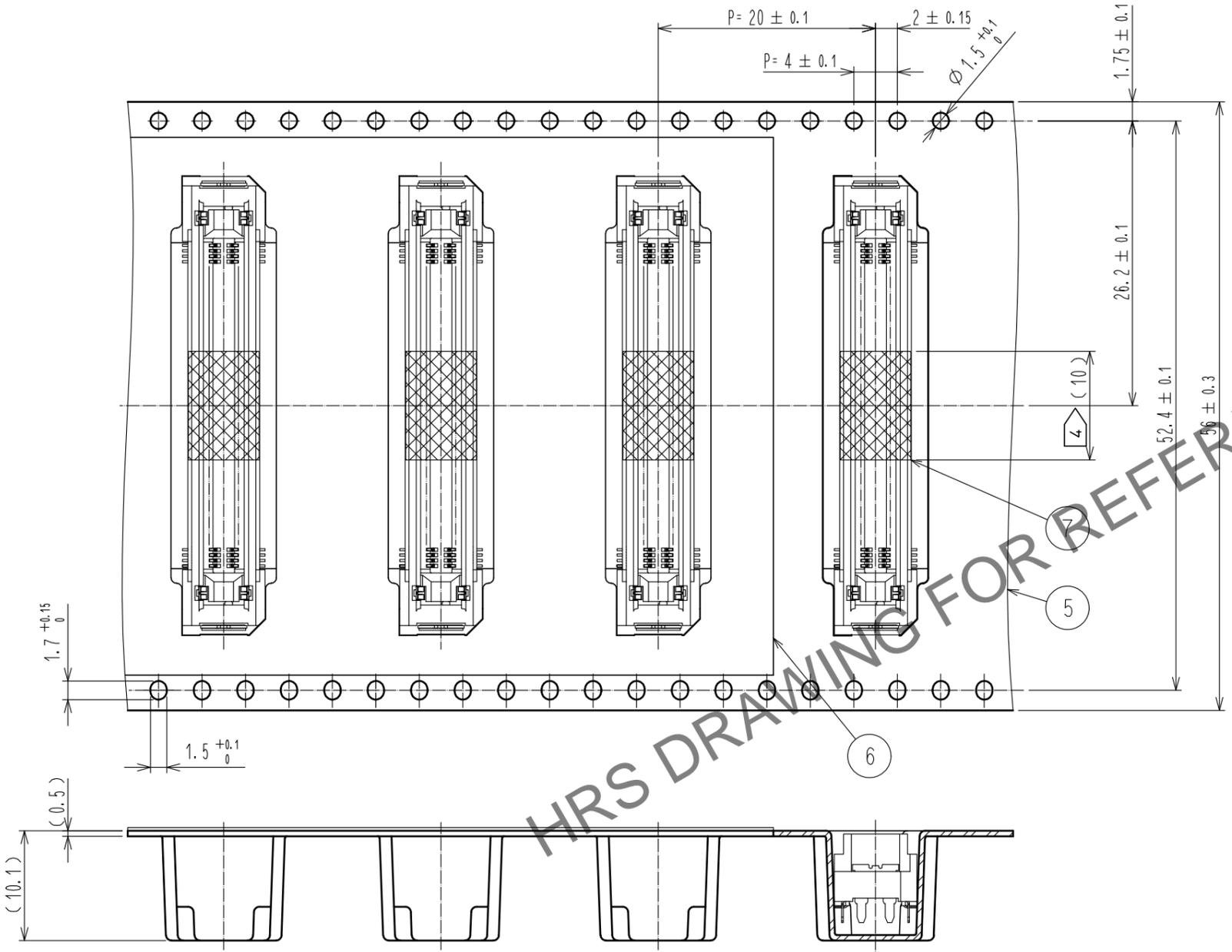
NO.	MATERIAL	FINISH	REMARKS	NO.	MATERIAL	FINISH	REMARKS
2	COPPER ALLOY		CONTACT AREA:GOLD 0.1 μm LEAD AREA:GOLD 0.03 μm UNDER PLATING:NICKEL 1.3 μm	4	BRASS		LEAD AREA:TIN-PLATING 3 μm UNDER PLATING:NICKEL 1 μm
1	LCP		BLACK UL94V-0	3	COPPER ALLOY		CONTACT AREA:GOLD 0.1 μm LEAD AREA:TIN-PLATING 1 μm UNDER PLATING:NICKEL 1.3 μm
7	POLYIMIDE		(TAPE FOR VACUUM PICKUP)	6	POLYESTER		(EMBOSSSED COVER TAPE)
6	POLYESTER		(EMBOSSSED COVER TAPE)	5	POLYSTYRENE		(EMBOSSSED CARRIER TAPE)

UNITS	SCALE	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	2:1	1	DIS-F-00005504	TS.00NO	HT.YAMAGUCHI	20191125
APPROVED : NH. NAKATA			20180221	DRAWING NO. EDC-353556-20-00		
CHECKED : MK. NAGATA			20180221	PART NO. FX23-120S-0.5SV(20)		
DESIGNED : TS.00NO			20180220	CODE NO. CL573-3206-3-20		
DRAWN : TS.00NO			20180220	1/3		

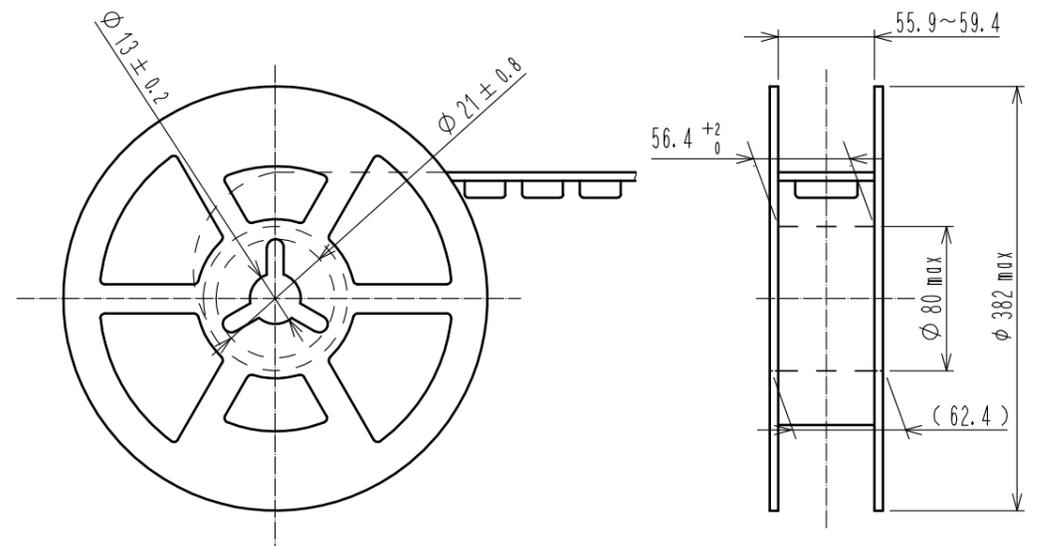
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2 DRAWING FOR PACKING(2:1)

Direction of pulling out →



REEL DIMENSION(No scale)



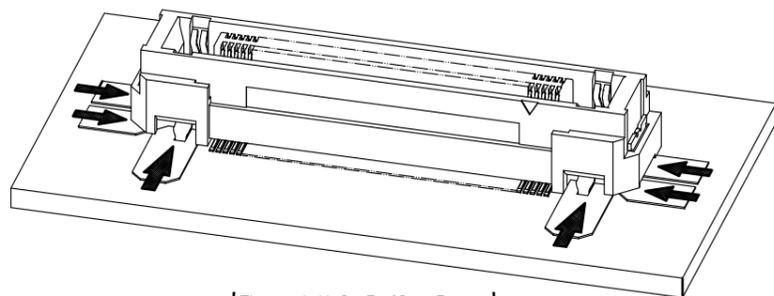
HRS	DRAWING NO.	EDC-353556-20-00
	PART NO.	FX23-120S-0.5SV(20)
	CODE NO.	CL573-3206-3-20
		2/3

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In order to prevent any potential failures with the connector, please read the following below:

[Through Hole Reflow Process]

FX23 and FX23L Series use through hole reflow process, where power contacts/metal fittings draw solder paste from the surrounding area. In regards to the soldering paste print area, the surface shall be flat with no exposed copper surface. If the surface is not flat, power contacts/metal fittings may not properly draw the soldering paste, resulting insufficient solder on the power contacts/metal fittings as well as ball-shaped solder on the PCB.

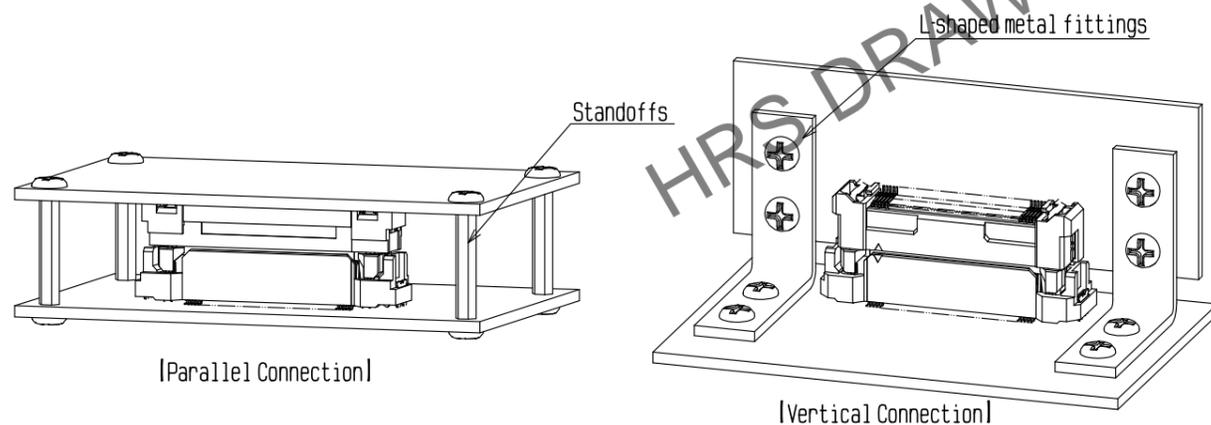


[Through Hole Reflow Image]

When applying solder from the opposite side of the PCB, due to the unavailability in solder space on the mounting side, there may be a case where solder is insufficiently applied to power contacts/metal fittings. Please check if the power contacts/metal fittings are properly soldered when doing so.

[Board Stabilization]

This connector can absorb misalignment of boards but cannot absorb vibration itself. When boards are supported by a connector only, the connector will be loaded excessively, which may result in a damage or contact failure. Take measures to secure boards with an object other than connector as shown in the following figure.



Note that when a spacer is installed far from connectors, incomplete mating of the connectors may occur due to sagging of the board, etc. Mate connectors surely and then fix a spacer.

[In Regards to Design Guideline]

To provide more information in regards to the usage of this product, we have prepared a detailed manual (ETAD-F0887-00). Please contact our sales representative if needed.

HRS DRAWING FOR REFERENCE



DRAWING NO.	EDC-353556-20-00
PART NO.	FX23-120S-0.5SV(20)
CODE NO.	CL573-3206-3-20