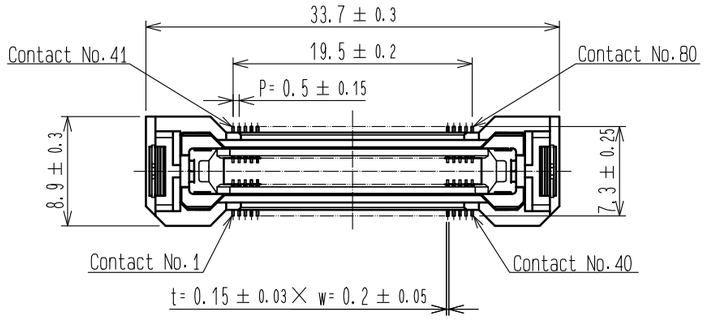
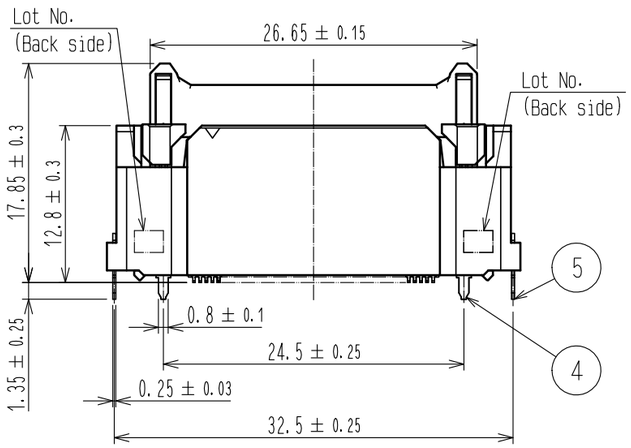
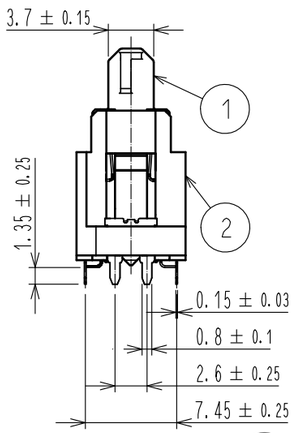
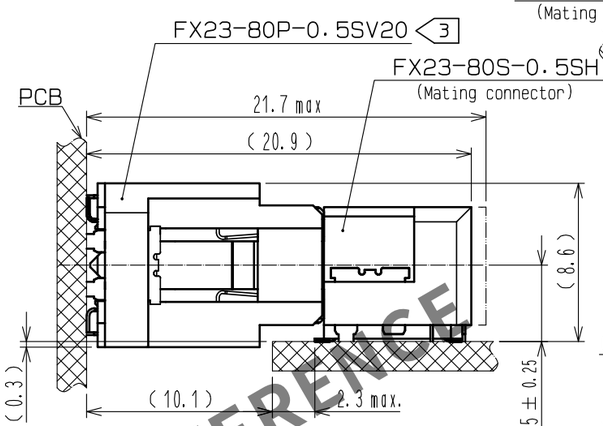
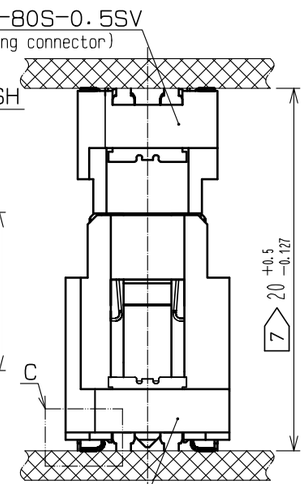
Mar.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

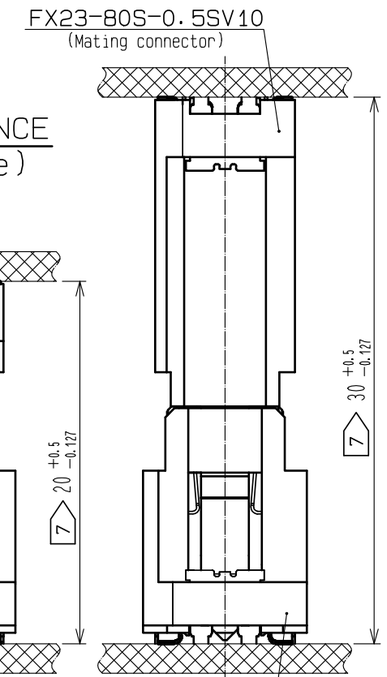






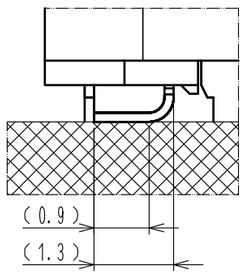




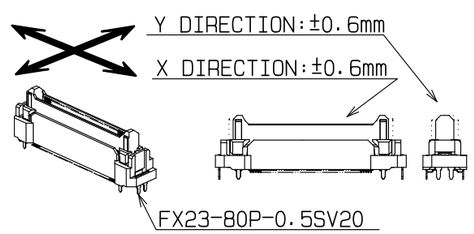


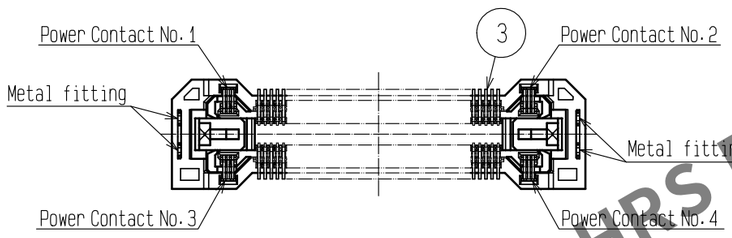
PCB DISTANCE
(No scale)

C(10:1)

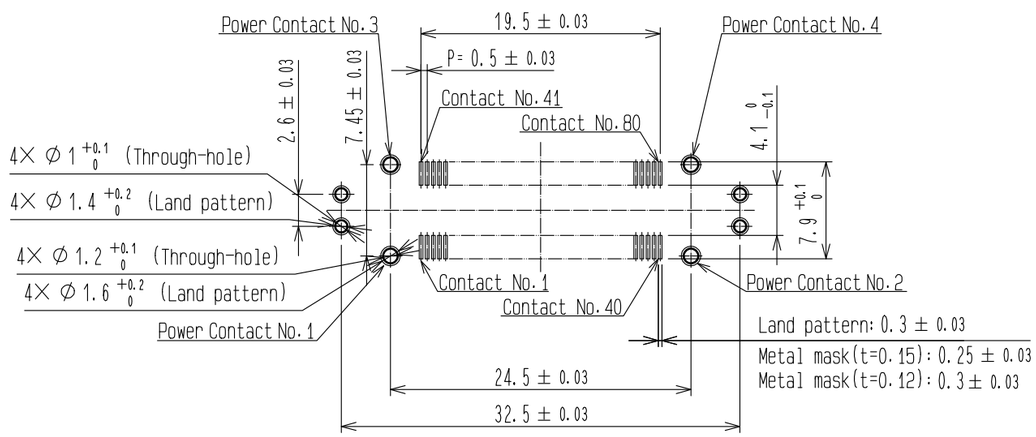


3 FLOATING RANGE





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



HRS DRAWING FOR REFERENCE

1 Lead CO-Planarity is 0.1mm MAX.
2 This is packaged in embossed carrier tape.(150pcs/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 occured 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
8	POLYIMIDE	(TAPE FOR VACUUM PICKUP)
7	POLYESTER	(EMBOSSED COVER TAPE)
6	POLYSTYRENE	(EMBOSSED CARRIER TAPE)
5	BRASS	LEAD AREA:TIN-PLATING 3μm UNDER PLATING:NICKEL 1μm
4	COPPER ALLOY	CONTACT AREA:GOLD 0.1μm LEAD AREA:TIN-PLATING 1μm UNDER PLATING:NICKEL 1.3μm
3	COPPER ALLOY	CONTACT AREA:GOLD 0.1μm LEAD AREA:GOLD 0.03μm UNDER PLATING:NICKEL 1.3μm
2	POLYAMIDE	BLACK UL94V-0
1	POLYAMIDE	BLACK UL94V-0
NO.	MATERIAL	FINISH , REMARKS

UNITS	SCALE		COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	2 : 1	△1	1	DIS-F-00005487	TS.OONO	HT.YAMAGUCHI	20191120

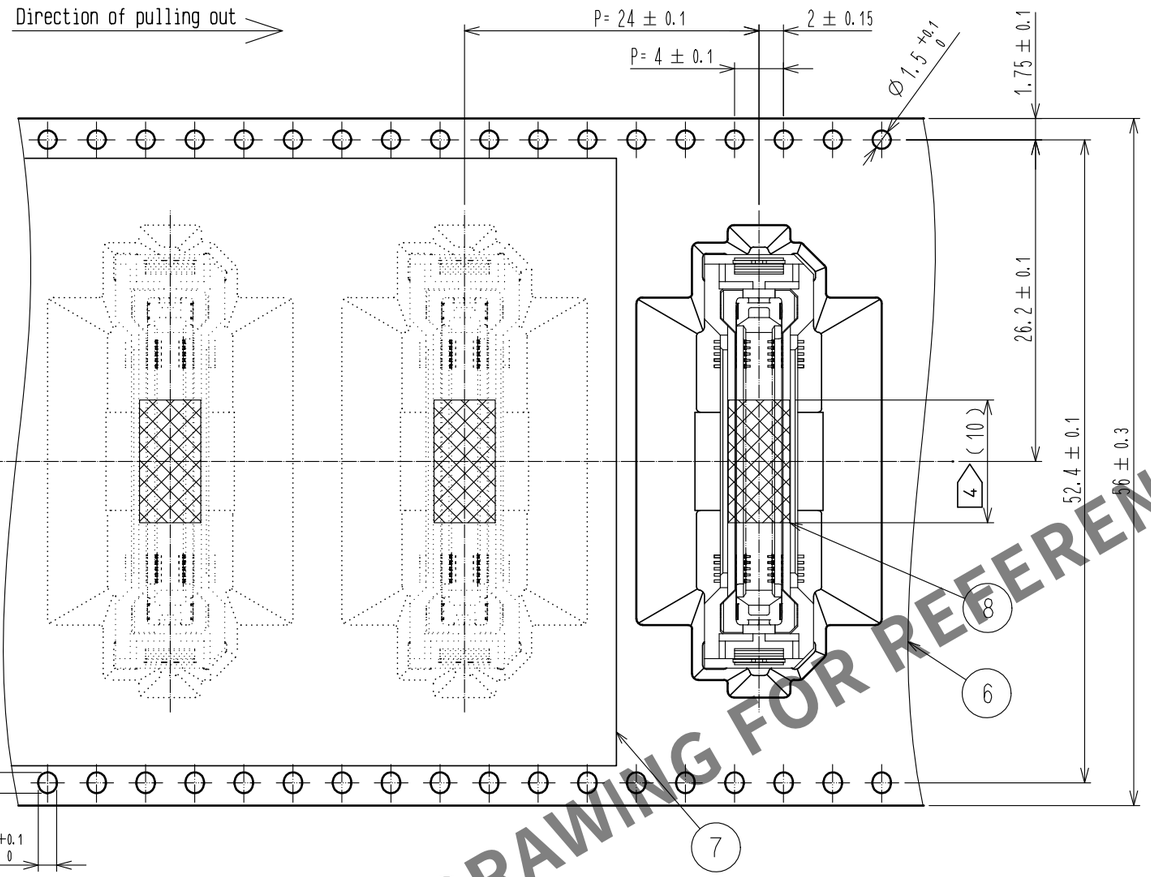
HIROSE ELECTRIC CO., LTD.

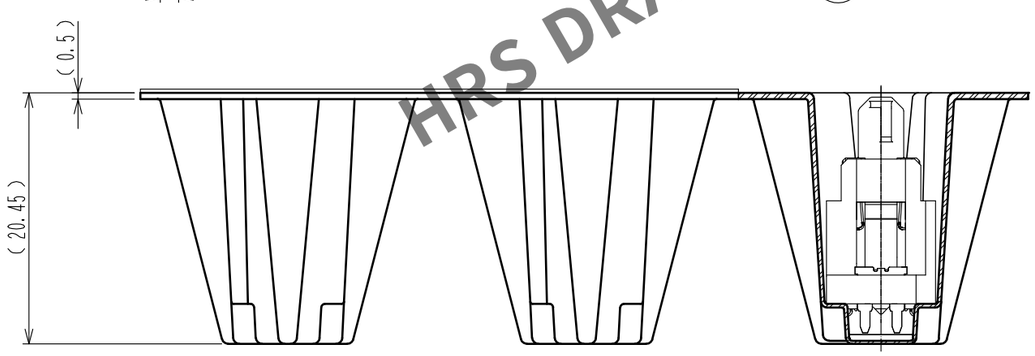
APPROVED	HS.OKAWA	20160229
CHECKED	HT.YAMAGUCHI	20160229
DESIGNED	YJ.ASAO	20160229
DRAWN	YJ.ASAO	20160229

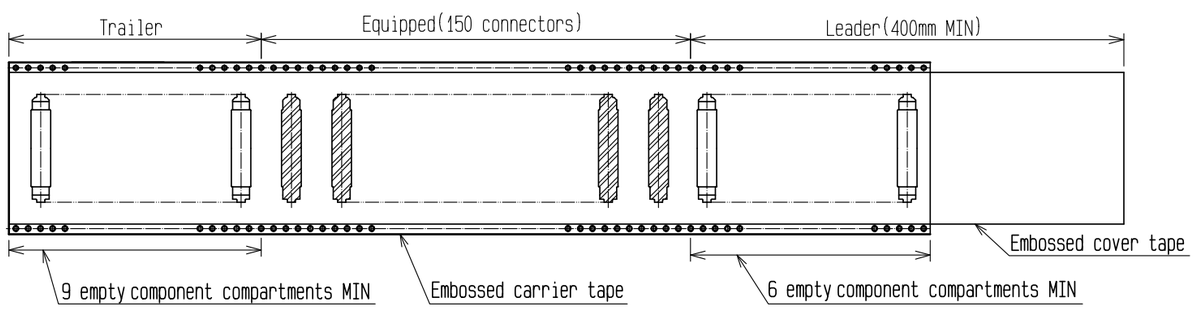
DRAWING NO. EDC-353547-20-00
PART NO. FX23-80P-0.5SV20(20)
CODE NO. CL573-3104-3-20 △1 1/3

Mar.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

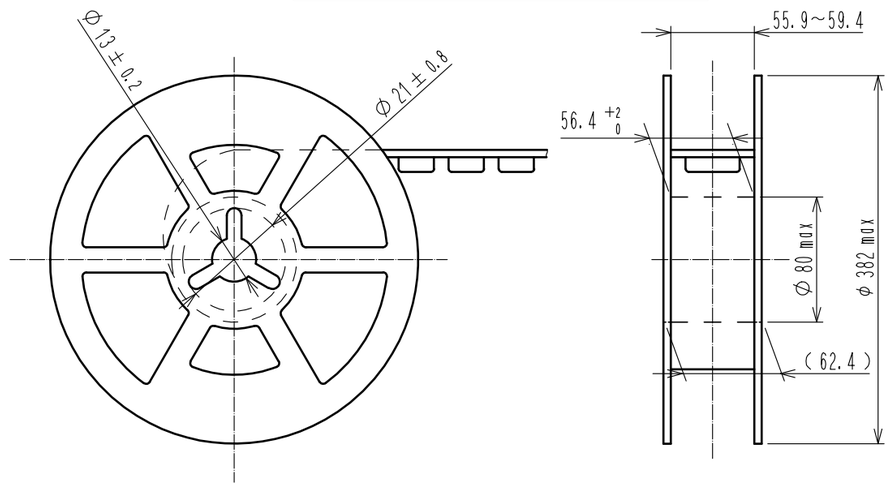
2 DRAWING FOR PACKING(2:1)







REEL DIMENSION(No scale)



HRS DRAWING FOR REFERENCE

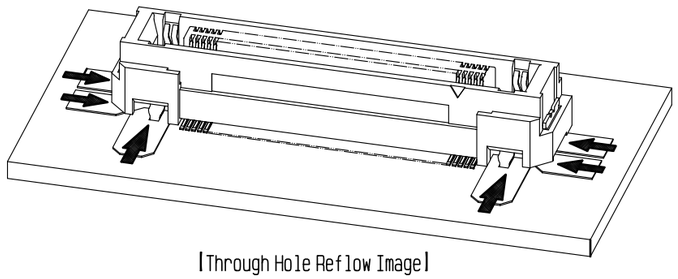
HRS	図番：	EDC-353547-20-00
	製品名：	FX23-80P-0.5SV20(20)
	製品コード	CL573-3104-3-20

Mar.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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]

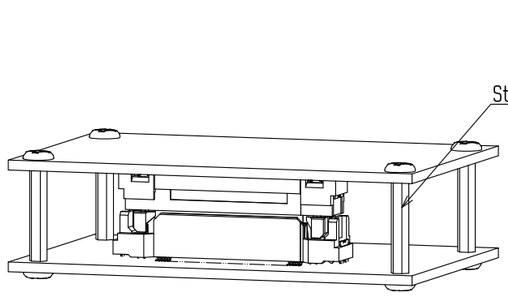
When applying solder from the opposite side of the PCB, due to the unavailability in solder space on the mounting side, there may be a case where solder is insufficiently applied to power contacts/metal fittings. Please check if the power contacts/metal fittings are properly soldered when doing so.

[In Regards to Design Guideline]

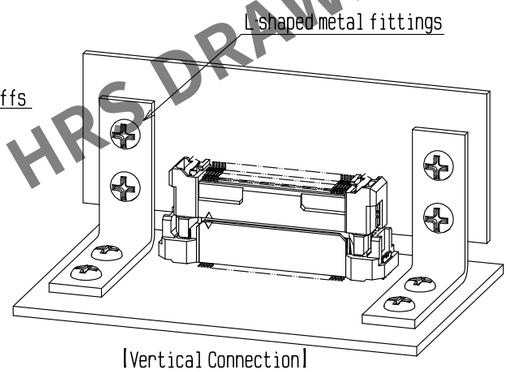
To provide more information in regards to the usage of this product, we have prepared a detailed manual (ETAD-F0887-00). Please contact our sales representative if needed.

[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.



[Parallel Connection]



[Vertical Connection]

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.

HRS DRAWING FOR REFERENCE

1 Added the third page.

HRS	DRAWING NO.	EDC-353547-20-00
	PART NO.	FX23-80P-0.5SV20(20)
	CODE NO.	CL573-3104-3-20