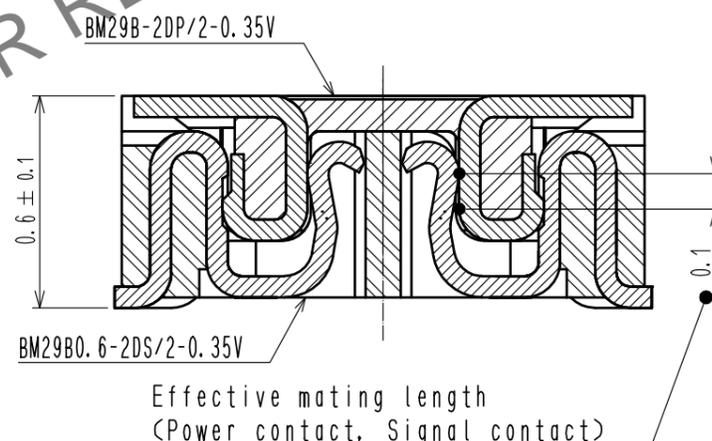
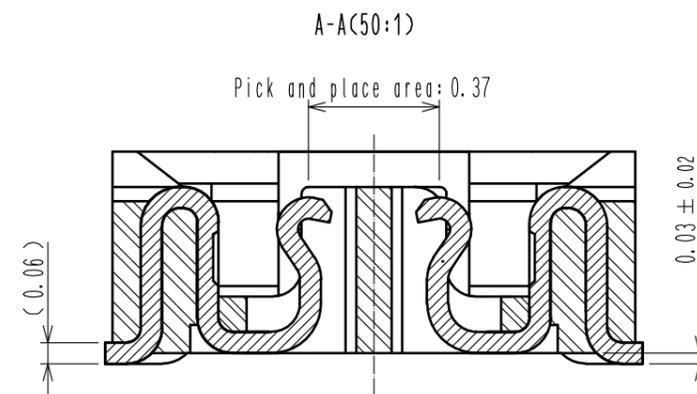
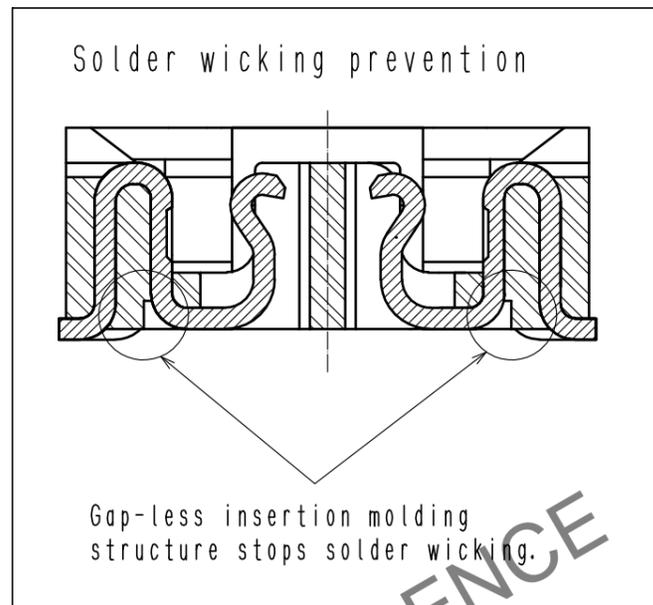
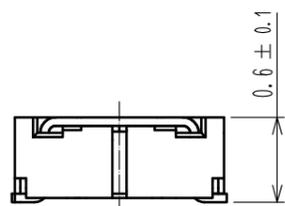
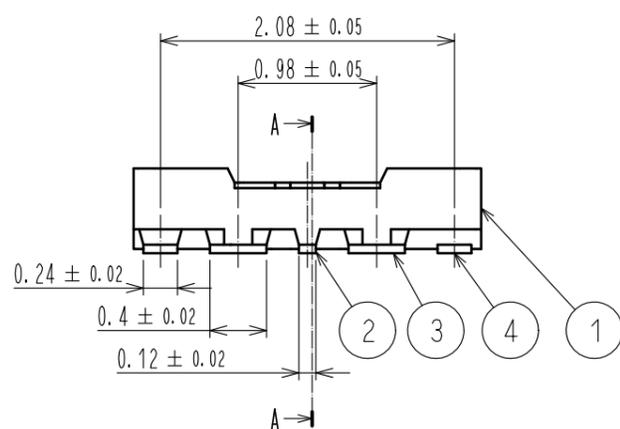
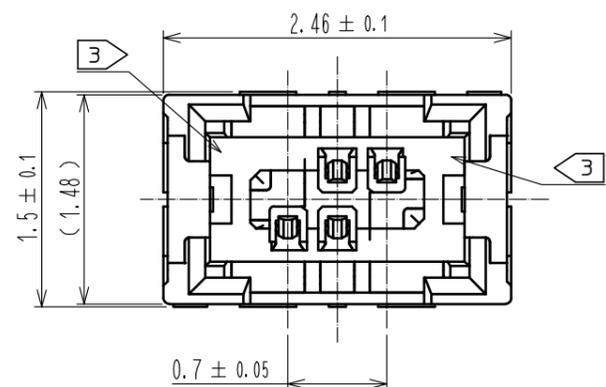


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- △ NOTE 1 . All lead co-planarity will be 0.08mm MAX.
- ② . Contact plating specifications
 Contact area : Gold 0.05 μm MIN
 SMT lead : Gold 0.05 μm MIN
 Under plating : Nickel 1 μm MIN
 (Surface : Sealing)
 - ③ . Cavity number is indicated at approximate location.

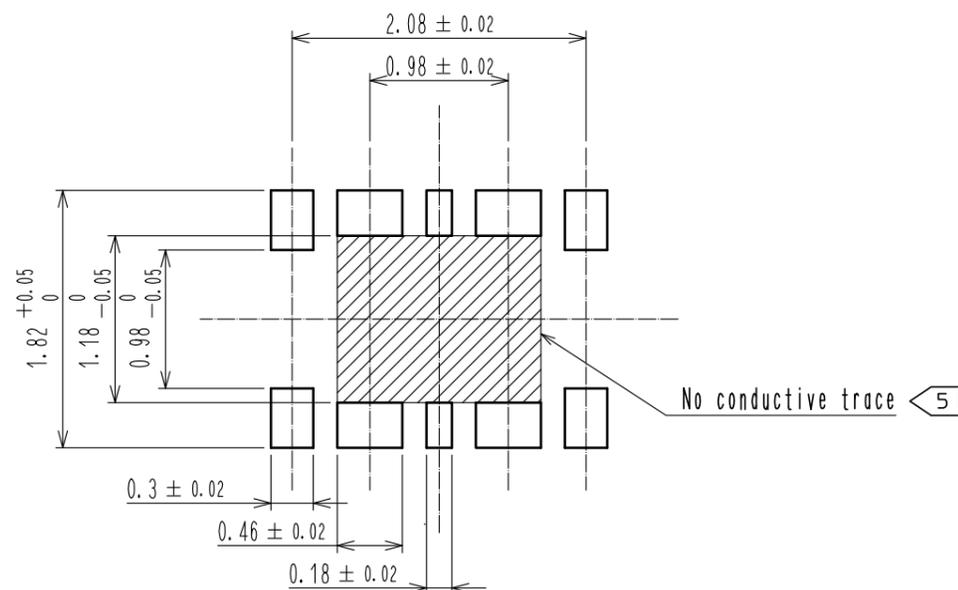
HRS DRAWING FOR REFERENCE

4	PHOSPHOR BRONZE	②	8	PS	CLEAR. REINFORCEMENT COLLAR
3	PHOSPHOR BRONZE	②	7	PS	BLACK. PLASTIC REEL
2	PHOSPHOR BRONZE	②	6	POLYESTER	CLEAR. COVER TAPE
1	LCP	UL94 V-0. BLACK	5	PS	SMOKE GRAY. EMBOSSED CARRIER TAPE
NO.	MATERIAL	FINISH . REMARKS	NO.	MATERIAL	FINISH . REMARKS

UNITS mm		SCALE 20:1	COUNT 1	DESCRIPTION OF REVISIONS DIS-H-00019139	DESIGNED RT. OSAKI	CHECKED RT. SHIMIZU	DATE 20230915
HRS HIROSE ELECTRIC CO., LTD.		APPROVED : MO. ISHIDA	20150323	DRAWING NO. EDC-362699-51-00		PART NO. BM2980.6-2DS/2-0.35V(51)	
		CHECKED : KY. MIDORIKAWA	20150323	CODE NO. CL0673-7001-0-51		④ 1/4	
		DESIGNED : TY. YAMASAKI	20150323				
		DRAWN : TY. YAMASAKI	20150323				

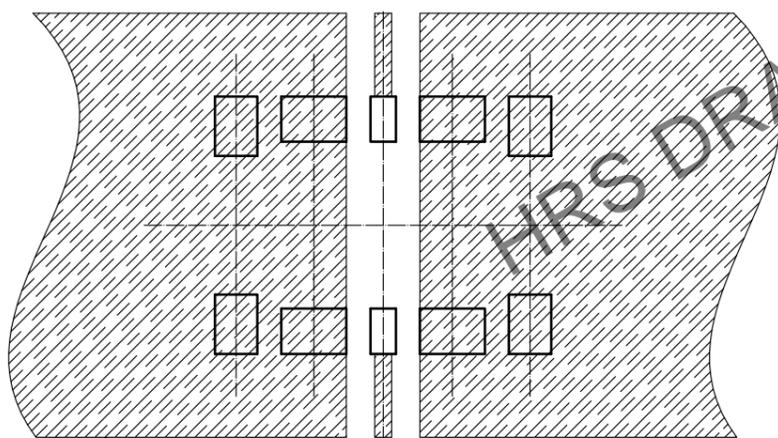
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◆Recommended PCB layout

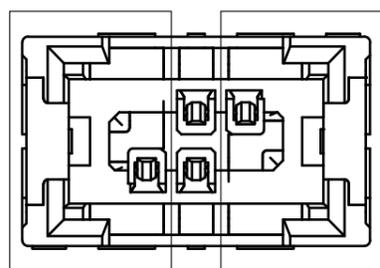


◆Recommended metal mask dimensions
 Metal mask thickness : 80 μm
 (Open ratio : 100% for PCB layout)

◆Recommended electrical circuit layout

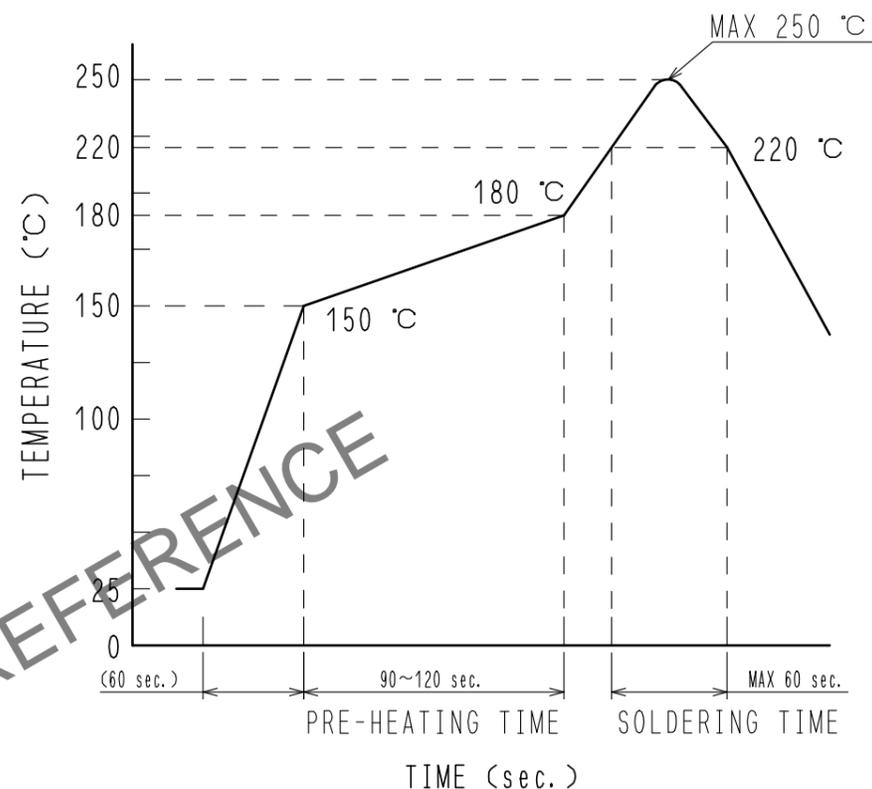


Electrical circuit



Power pin unit

4 Recommended reflow temperature profile using lead-free solder paste.

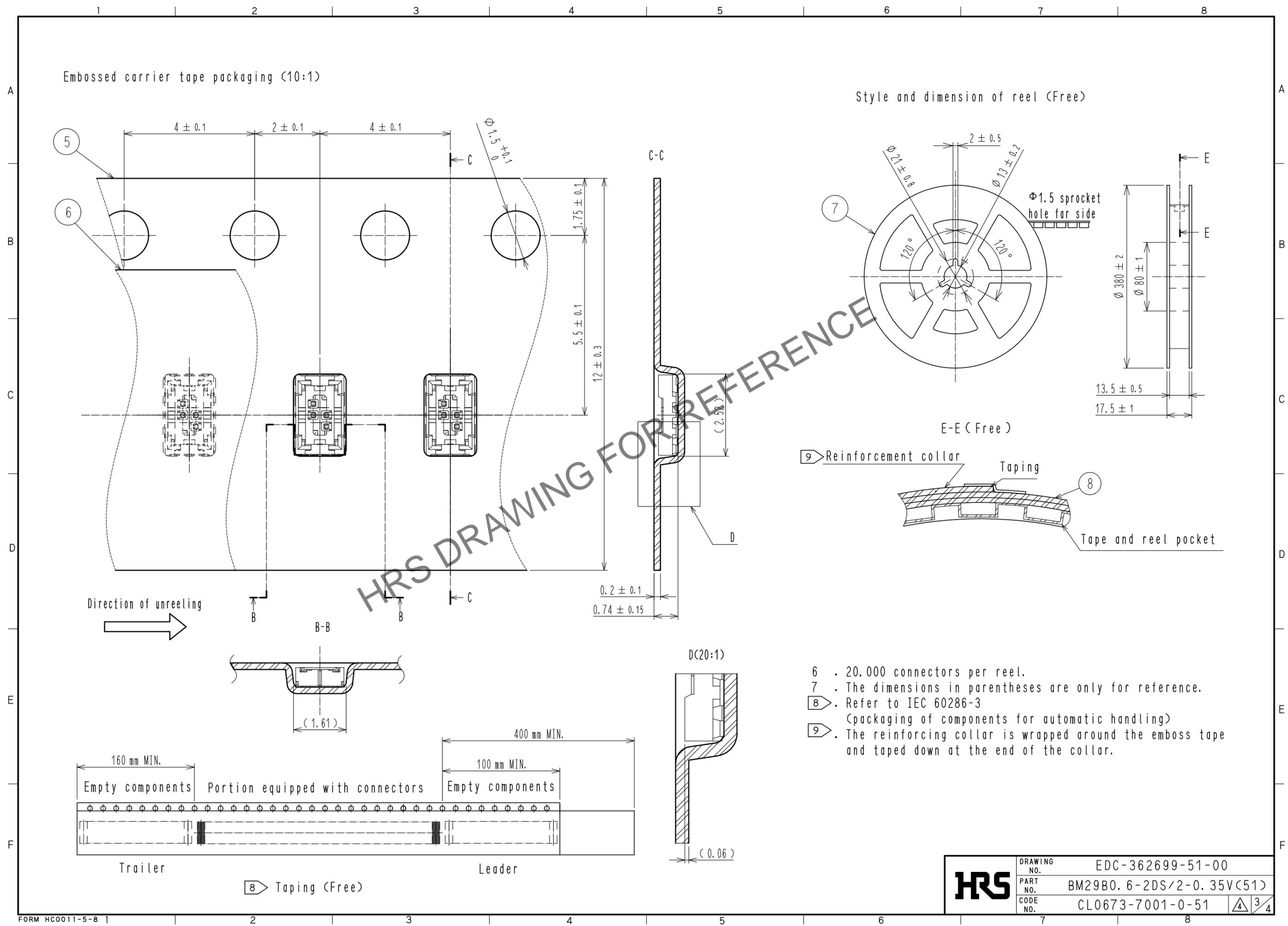


Reflow method: IR reflow
 Number of reflow cycles: 2 cycles MAX.
 1) Reflow time
 Duration above 220°C: 60 sec MAX.
 (Peak temperature: 250°C MAX)
 2) Pre-heat time
 Pre-heat temperature (MIN): 150°C
 Pre-heat temperature (MAX): 180°C
 Pre-heat time: 90-120 sec.

- 4 This temperature profile is based on the suggested metal mask and footprint. Please contact us if using different settings from our recommendation.
- 5 For the routing on the indicated PCB surface, apply solder resist in order for the insulation treatment.

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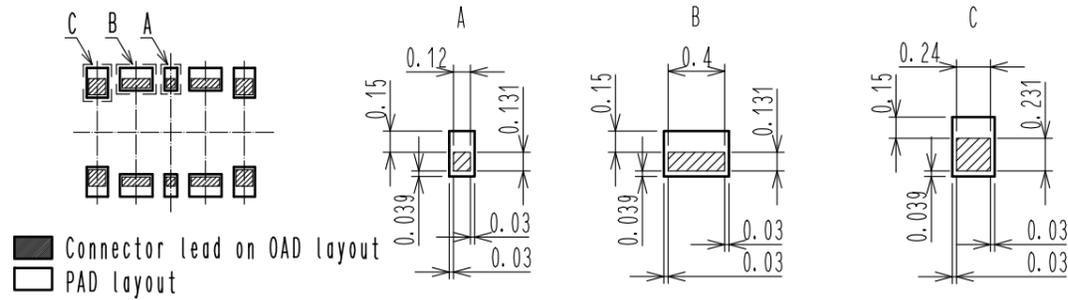


- 6 . 20,000 connectors per reel.
- 7 . The dimensions in parentheses are only for reference.
- 8 . Refer to IEC 60286-3
(packaging of components for automatic handling)
- 9 . The reinforcing collar is wrapped around the emboss tape and taped down at the end of the collar.

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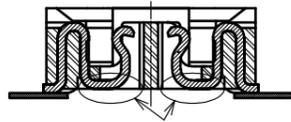
10. Please refer to the product guideline ETAD-H1016 for detail of connector handling.

The position between the connector and PAD



Caution for soldering

There is metal exposure area bottom of the connector.
 To avoid solder wicking from the bottom side, please design PCB PAD and stencil with recommended dimensions.

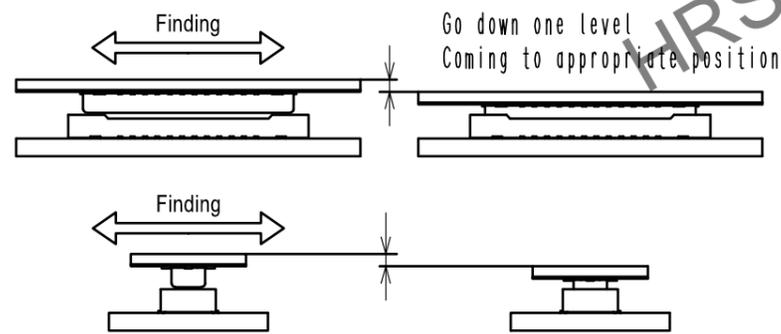


Mating method

Please mate the connector by hand.

Mating procedure

- Find the alignment area to the connector in the appropriate mating position.
 This connector has an alignment chamber (guidance ribs) on receptacle side and "r" on plug side, so that the connector will be self-aligned.
 When the connector comes to the appropriate position, the connector goes into the aligned position.
 When aligned, it can be felt by hand.



- When guiding, the connectors are aligned parallel to each other, with longitudinal and lateral movements restricted. Mate them properly by applying force in this condition.

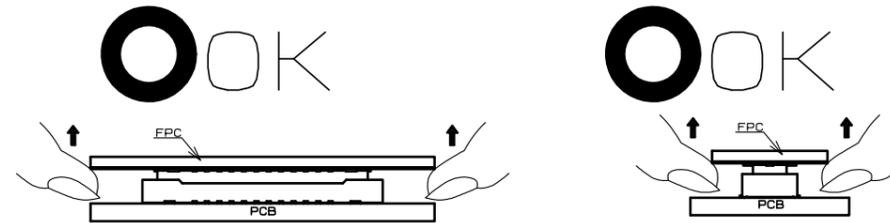


- Make sure the connectors are mated correctly. If one side is floating or the connectors are mated in one direction, un-mate them once, and then mate them again, following the procedures above from the beginning.

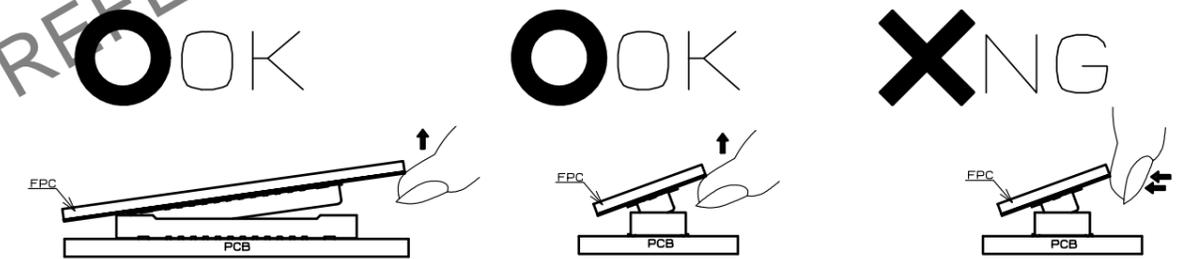
Un-mating method

Please un-mate the connector by hand

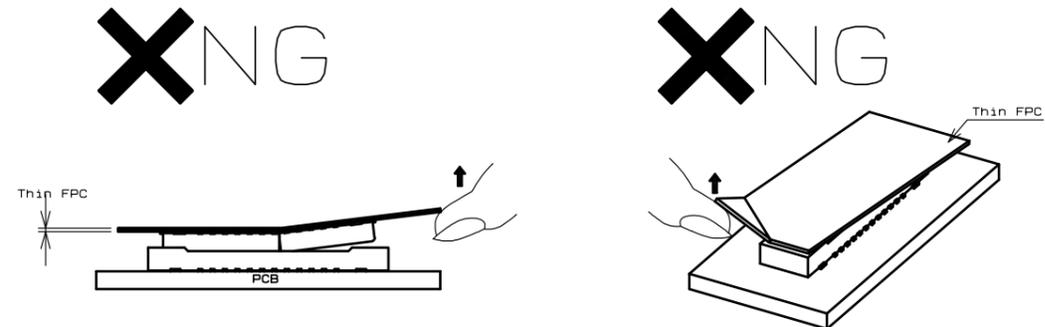
- Un-mate the connectors parallel to each other. However, if the connectors have high pin counts or thinner FPC and stiffener, it becomes more difficult to do so.



- If the connector cannot be un-mated parallel it can be removed diagonally from the pitch direction. Be careful to do so since this action applies stress on the contact.



- If the FPC is not rigid, The connector can be broken. Please check the action of the FPC to be used repeatedly at the time of trial production. be careful to un-mate them from the pitch direction, pulling it from the corner can also risk to putting stress on contacts.



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