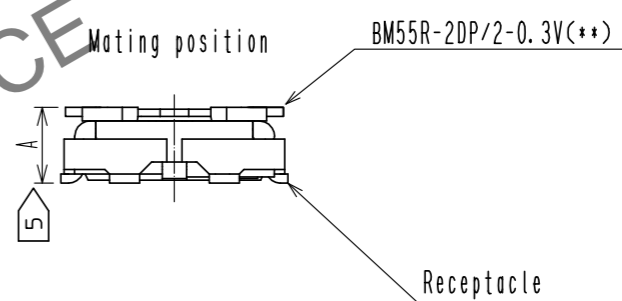
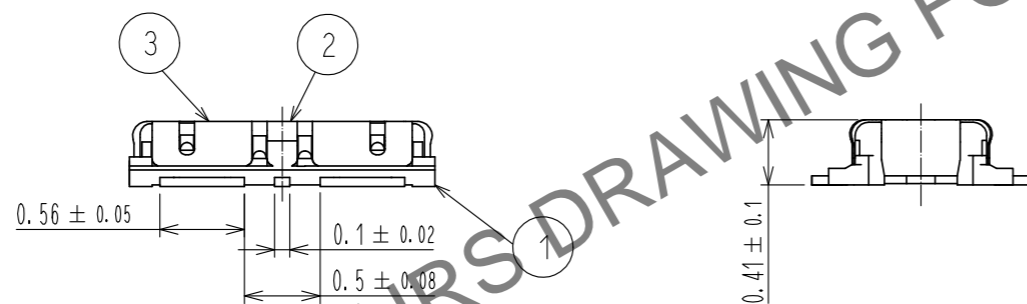
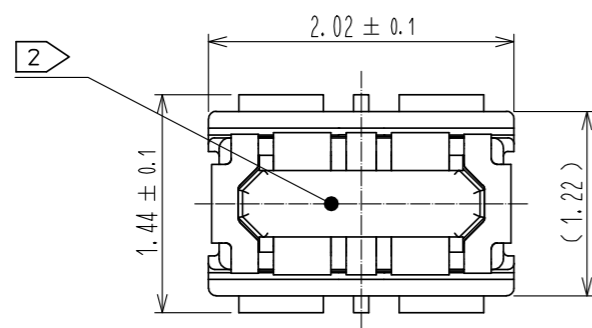


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| | | |
|-------------------------|----------|----------------------|
| 5 Stacking height | | |
| Receptacle no. | Plug no. | BM55R-2DP/2-0.3V(**) |
| BM55R0.5-2DS/2-0.3V(**) | | A=0.5±0.1 |

Note

1. All lead co-planarity will be 0.08mm max.
2. Cavity number is indicated at approximate location.
3. Plating specifications
 - Contact area : Gold 0.05μm min
 - SMT lead : Gold 0.05μm min
 - Under plating : Nickel 1μm min
 - (Surface : Sealing)
4. Metal burr is allowed up to 0.05mm.

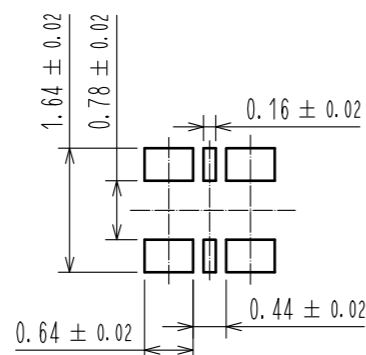
| 3 | COPPER ALLOY | 3 | 7 | PS | CLEAR. REINFORCEMENT COLLAR |
|-----|--------------|------------------|-----|-----------|-----------------------------------|
| 2 | COPPER ALLOY | 3 | 6 | PS | BLACK. PLASTIC REEL |
| 1 | LCP | BLACK | 5 | POLYESTER | CLEAR. COVER TAPE |
| | | | 4 | PS | SMOKE GRAY. EMBOSSED CARRIER TAPE |
| NO. | MATERIAL | FINISH . REMARKS | NO. | MATERIAL | FINISH . REMARKS |

| | | | | | | | |
|---------------------------|--|-----------------|-----------|--|--|---------|------|
| UNITS mm | | SCALE 20 : 1 | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| HIROSE ELECTRIC CO., LTD. | | | | APPROVED : TY.001 20241115 CHECKED : RT.SHIMIZU 20241115 DESIGNED : YT.TAKAGI 20241115 DRAWN : YT.TAKAGI 20241115 | DRAWING NO. EDC-406185-51-00 PART NO. BM55R-2DP/2-0.3V(51) CODE NO. CL0673-1005-0-51 | | |

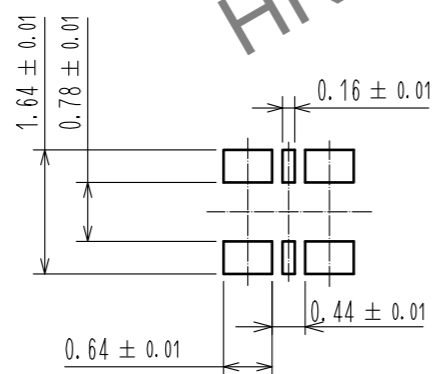
HRS DRAWING FOR REFERENCE

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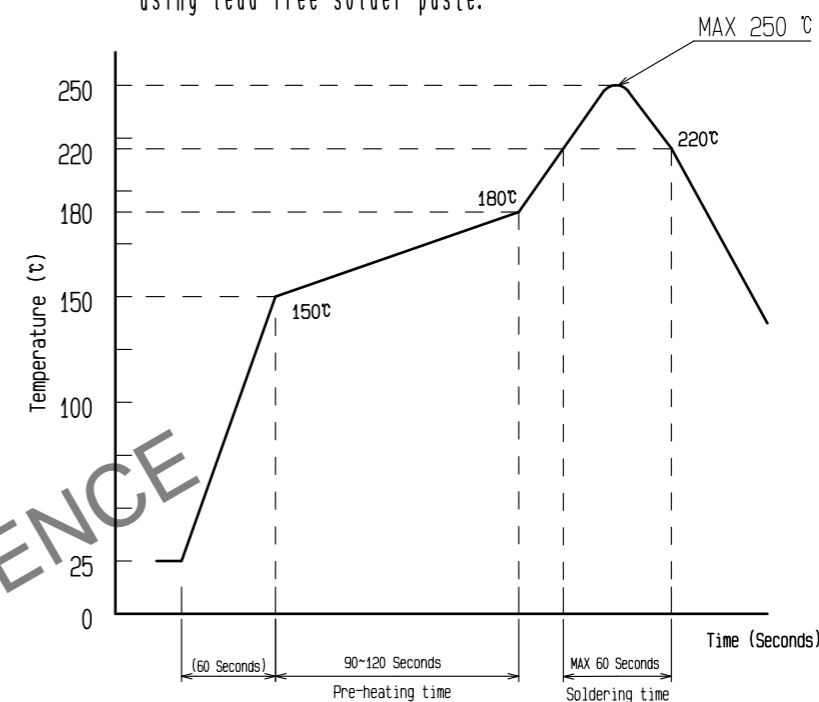
Recommended PCB layout



Recommended metal mask dimensions
metal mask thickness : 80 μm



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

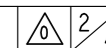


Reflow method: Ir reflow
 Number of reflow cycles: 2 cycles max.
 1) Reflow time
 Duration above 220°C, 60 sec max.
 (Peak temperature: 250°C max)
 2) Pre-heat time
 Pre-heat temperature(min): 150°C
 Pre-heat temperature(max): 180°C
 Pre-heat time: 90-120 sec.

Note

- 6. This product satisfies halogen free requirements defined as 900ppm max chlorine, 900ppm max bromine, and 1500ppm max total of chlorine and bromine.
- 7. This product complies with RoHS.
- 8. This temperature profile is based on the suggested metal mask and footprint. Please contact us if using different settings from our recommendation.

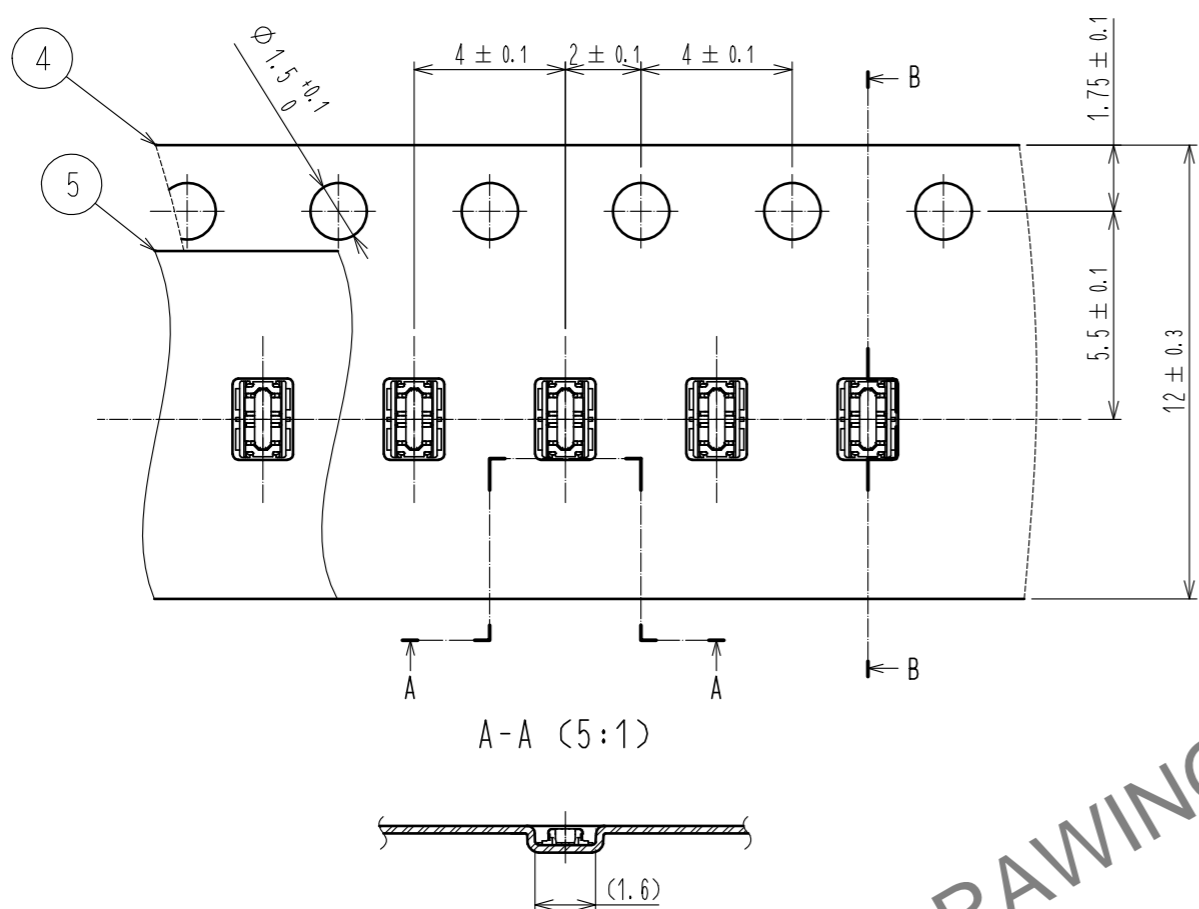
| | | |
|------------|-------------|----------------------|
| HRS | DRAWING NO. | EDC-406185-51-00 |
| | PART NO. | BM55R-2DP/2-0.3V(51) |
| | CODE NO. | CL0673-1005-0-51 |



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Embossed carrier tape packaging (5 : 1)

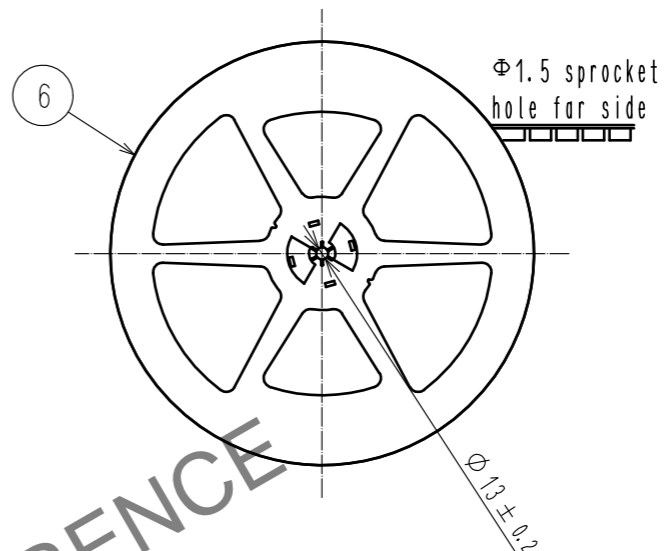
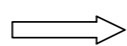
Style and dimension of reel (free)



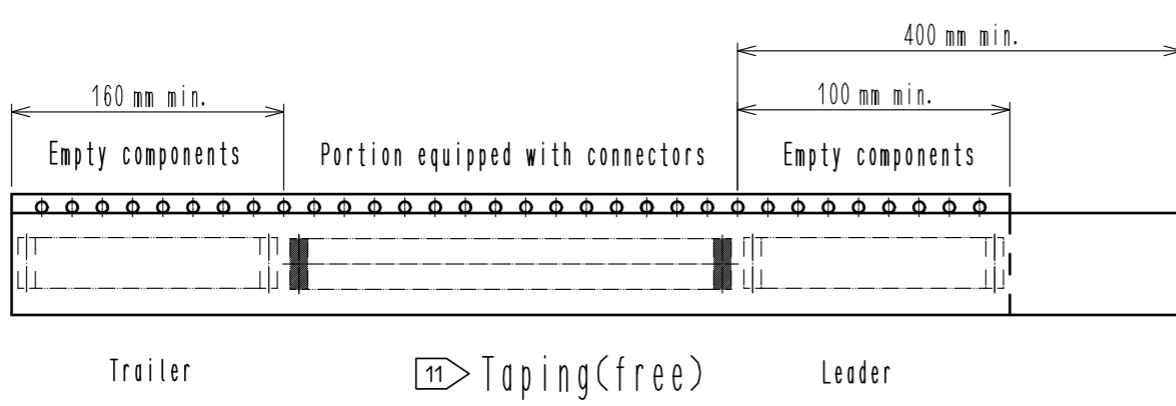
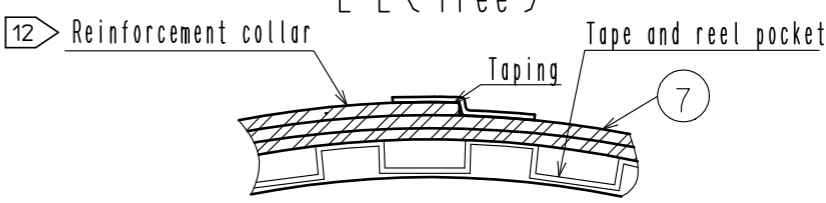
B-B (5:1)

A-A (5:1)

Direction of unreeling



E-E (free)



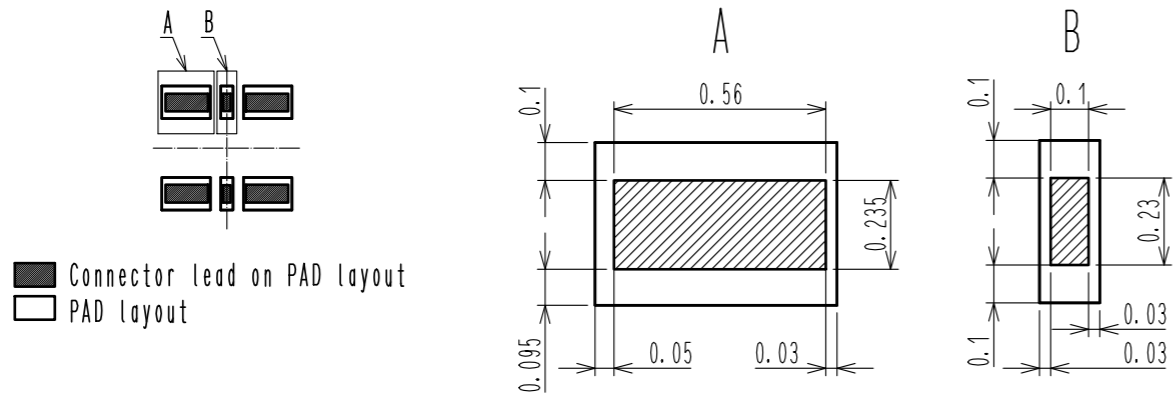
- 9 . 30,000 connectors per reel.
- 10 . The dimensions in parentheses are only for reference.
- 11 Refer to IEC 60286-3 (packaging of components for automatic handling)
- 12 The reinforcing collar is wrapped around the emboss tape and taped down at the end of the collar.

| | | |
|------------|-------------|----------------------|
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13. Please refer to the product guideline ETAD-H1044 for detail of connector handling.

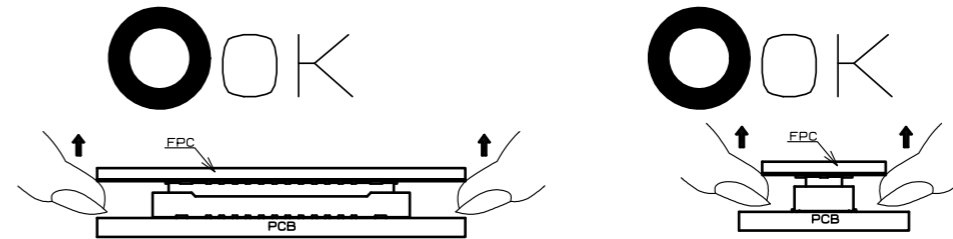
The position between the connector and PAD



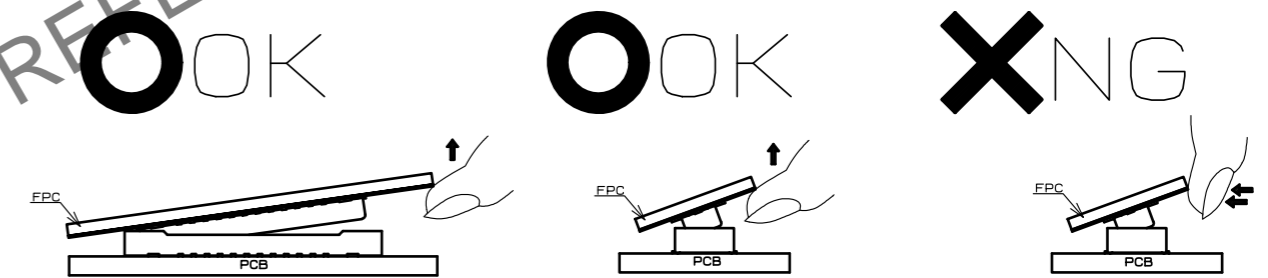
Un-mating method

Please un-mate the connector by hand

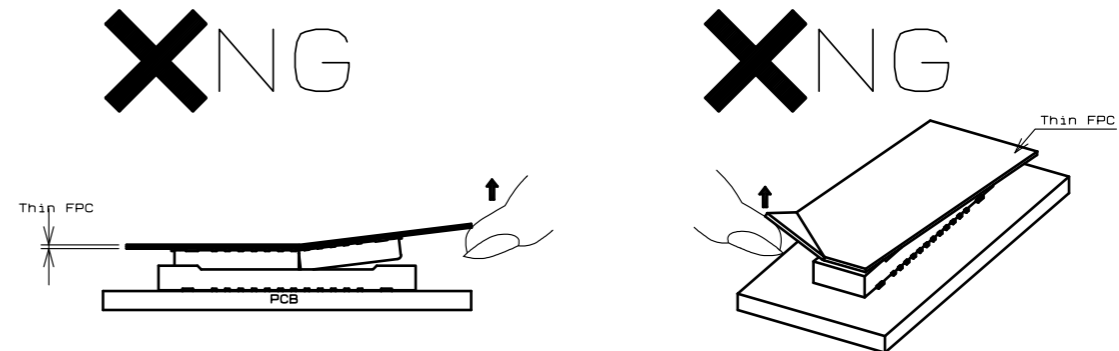
- (1) Un-mate the connectors parallel to each other. However, if the connectors have high pin counts or thinner FPC and stiffener, it becomes more difficult to do so.



- (2) 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.



- (3) 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.

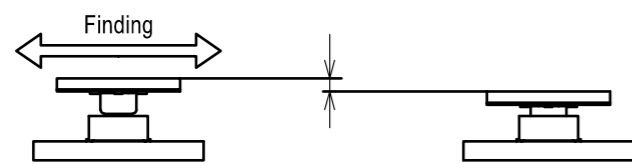
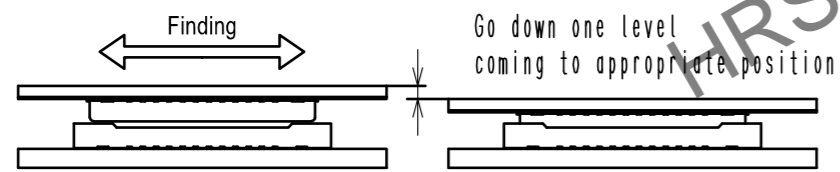


Mating method

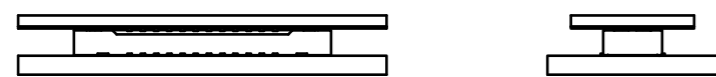
Please mate the connector by hand.

Mating procedure

- (1) Find the alignment area to the connector in the appropriate mating position.
This connector has an alignment chamber (Guidance ribs) on receptacle side and "A" 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.



- (2) 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.



- (3) 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.

| | | |
|------------|-------------|----------------------|
| HRS | DRAWING NO. | EDC-406185-51-00 |
| | PART NO. | BM55R-2DP/2-0.3V(51) |
| | CODE NO. | CL0673-1005-0-51 |
| | | 4/4 |