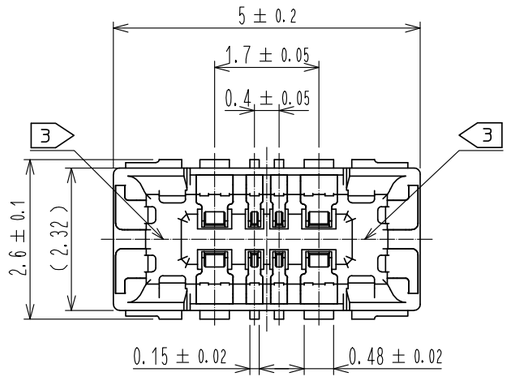
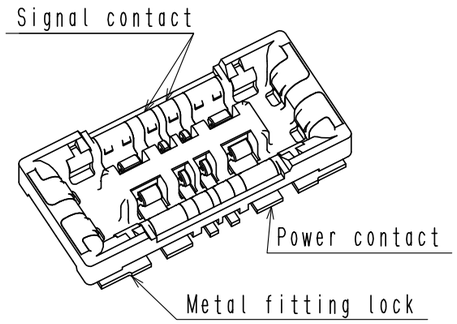
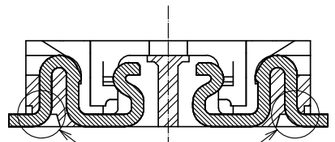
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HRS DRAWING FOR REFERENCE



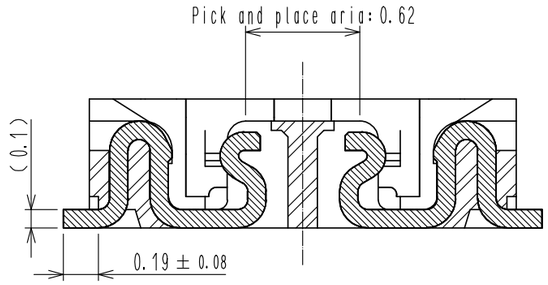


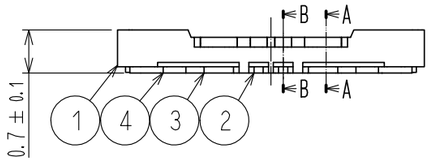
Solder wicking prevention

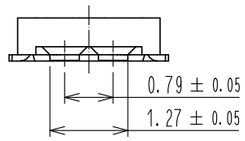


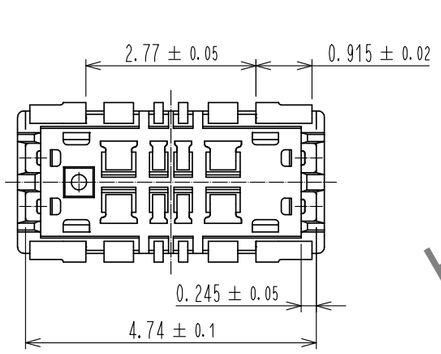
Gap-less integral molding structure stops solder wicking.

A-A (30:1)
B-B (30:1)

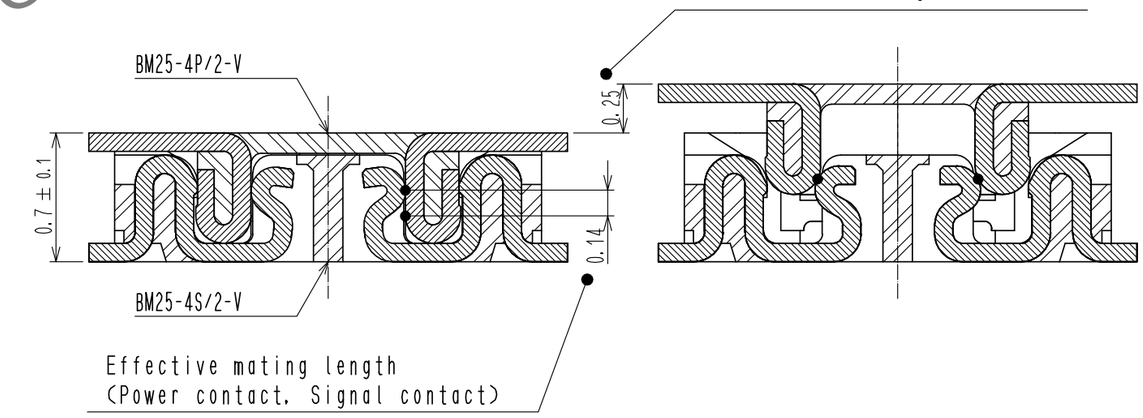








Effective contact length
(Power contact, Signal contact)



Effective mating length
(Power contact, Signal contact)

NOTE 1. All lead co-planarity shall be 0.08mm MAX.
2. Contact plating specifications
Contact area : Gold 0.05μm MIN
SMT lead : Gold 0.05μm MIN
Under plating : Nickel 1μm MIN
(Surface : Sealing)
3. HRS mark and CAV No. are indicated in approx. position shown.

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

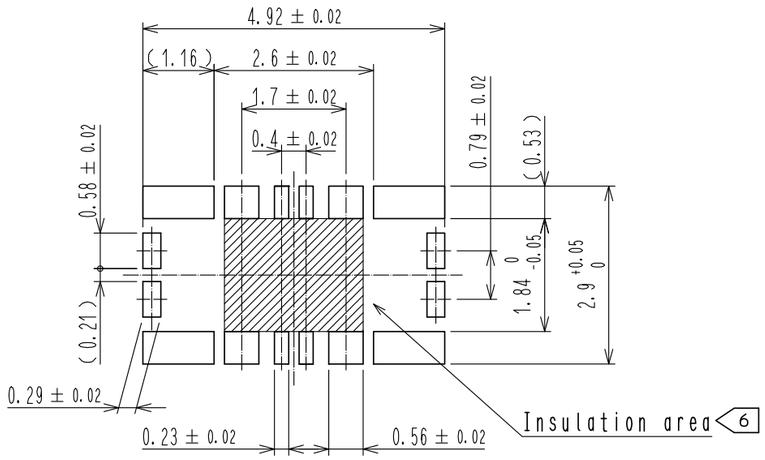
UNITS	SCALE		COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	10 : 1	2	1	DIS-H-00001218	TR. YUNOKI	TS. MIYAZAKI	15. 12. 26

HRS HIROSE ELECTRIC CO., LTD.

APPROVED	MO. ISHIDA	15. 03. 26	DRAWING NO. EDC-358233-53-01
CHECKED	YH. MICHIDA	15. 03. 26	PART NO. BM25-4S/2-V(53)
DESIGNED	TR. YUNOKI	15. 03. 26	
DRAWN	KR. AJITO	15. 03. 26	CODE NO. CL677-1200-0-53 2 1/4

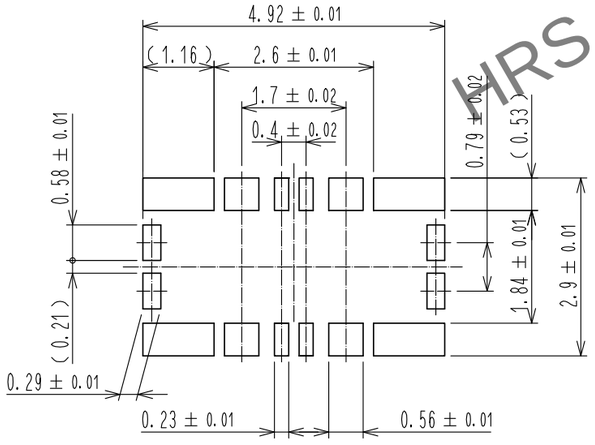
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◈Recommended PCB layout

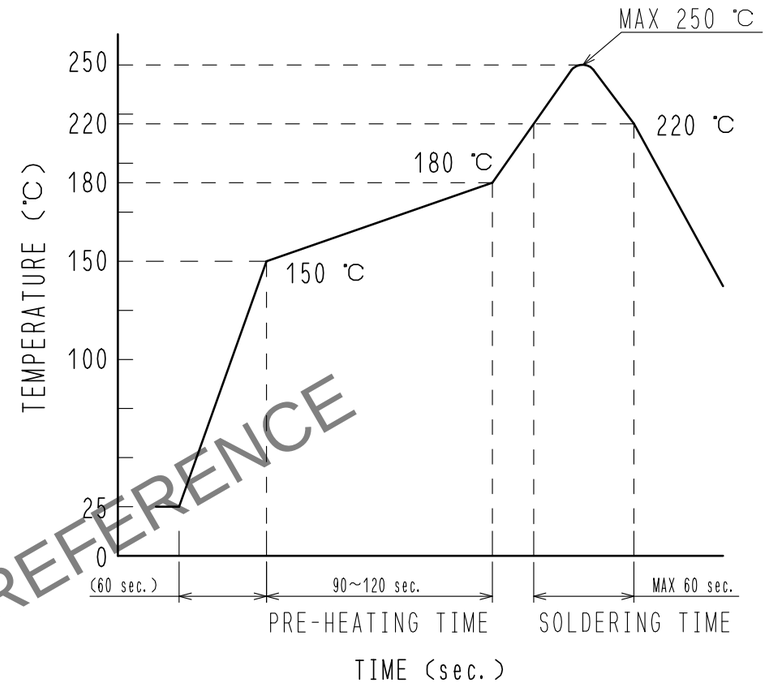


◈Recommended metal mask dimensions

Metal mask thickness : 100μm
(Open ratio : 100% for PCB layout)



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℃, 60 sec MAX.
(Peak temperature:250℃ MAX)
2)Pre-heat time
Pre-heat temperature(MIN):150℃
Pre-heat temperature(MAX):180℃
Pre-heat time:90-120 sec.

4. The temperatures mentioned above refer to the PCB surface temperature near the connector leads.
The temperature profiles are based on the above conditions.
In individual applications the actual temperature may vary, depending on solder paste type, volume/thickness and board size/thickness.
Consult your solder paste and equipment manufacturer for specific recommendations.

5. Please contact us in case you will make different settings from our recommendation.

6. For the routing on the indicated PCB surface, apply solder resist in order for the insulation treatment.

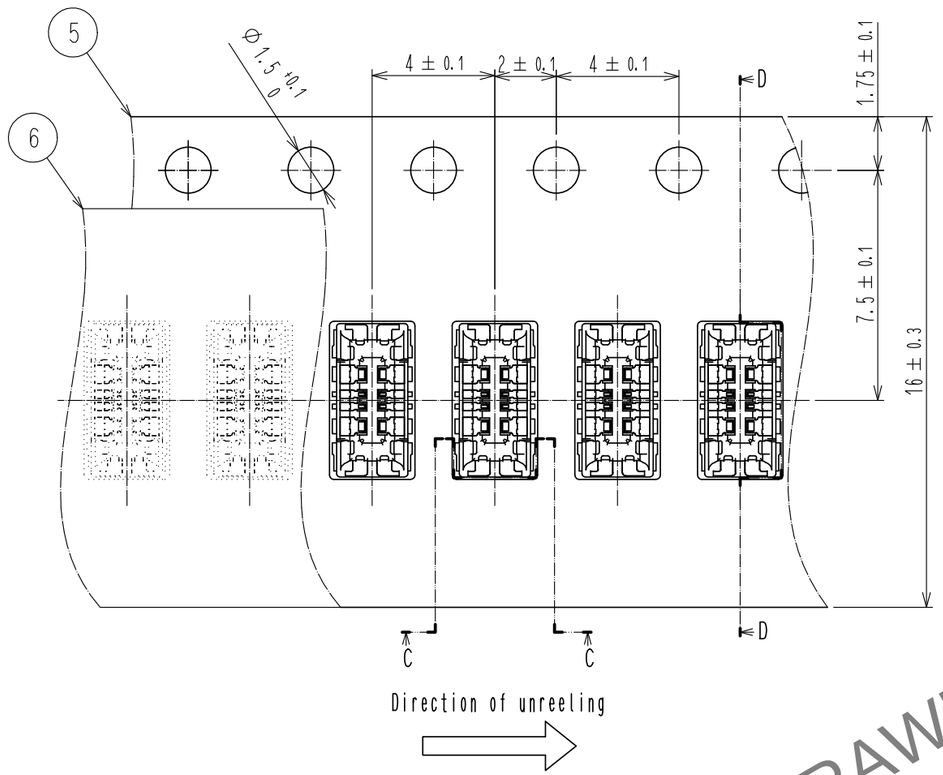
HRS DRAWING FOR REFERENCE

DRAWING NO.	EDC-358233-53-01
PART NO.	BM25-4S/2-V(53)
CODE NO.	CL677-1200-0-53

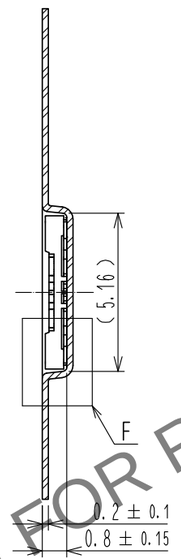
2/4

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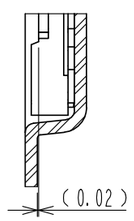
Embossed carrier tape packaging (5:1)



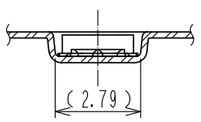
D-D (5:1)

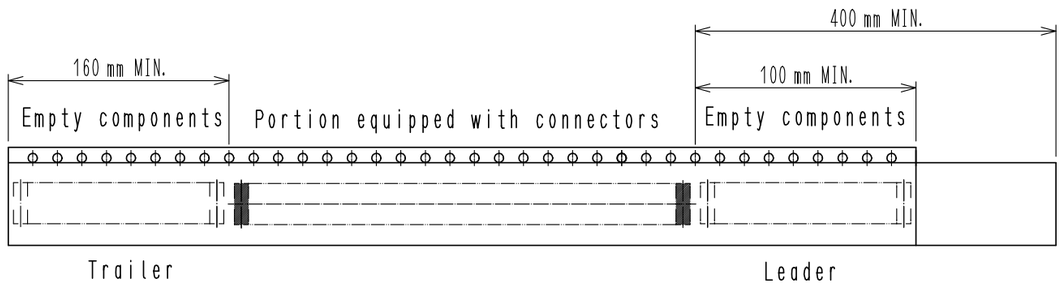


F (10:1)



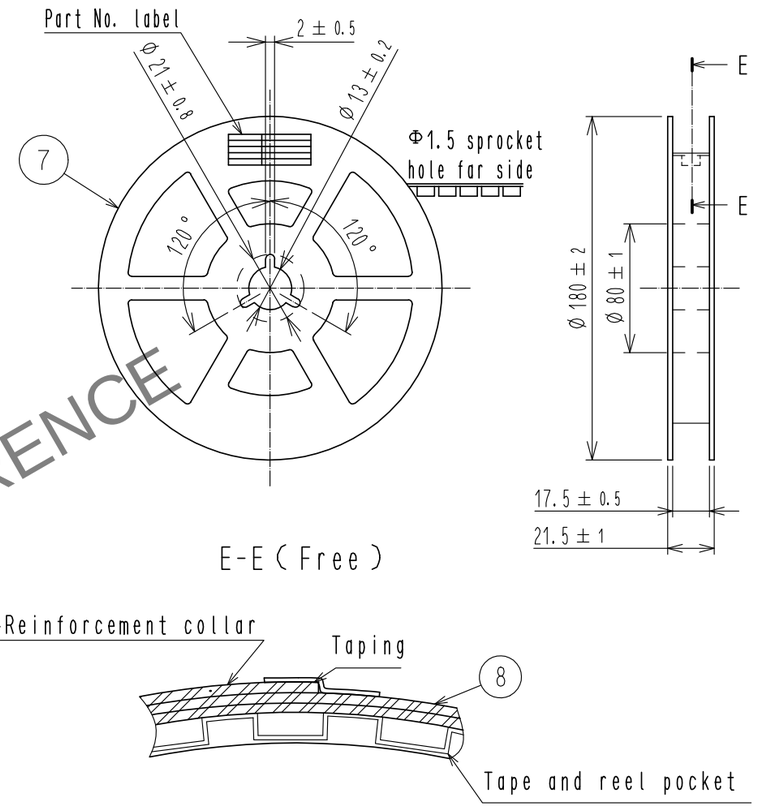
C-C (5:1)





9 Taping (Free)

Style and dimension of reel (Free)



E-E (Free)

10 Reinforcement collar

Detail of part No. label

製造年月日	** ** **
製品コード	CL0677-1200-0-53
製品名	BM25-4S/2-V(53)
数量	1,000
納入者	ヒロセ電機(株)

Data of manufactured
Code No.
Part No.
Quantity
Supplier

7 . Per reel 1,000 connectors.
8 . The dimensions in parentheses are for reference.
9 . Refer to JIS C 0806 and IEC60286-3 (Packaging of components for automatic handling)
10 . Wrap a reinforcing collar made by polystyrene to the surface of emboss reel at the termination side in order to protect emboss carrier tape, top cover tape.

HRS DRAWING FOR REFERENCE

DRAWING NO.	EDC-358233-53-01
PART NO.	BM25-4S/2-V(53)
CODE NO.	CL677-1200-0-53

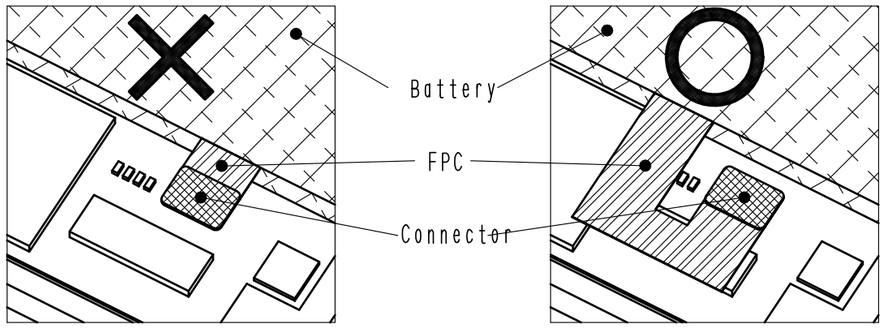
2 3/4

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How to draw the FPC

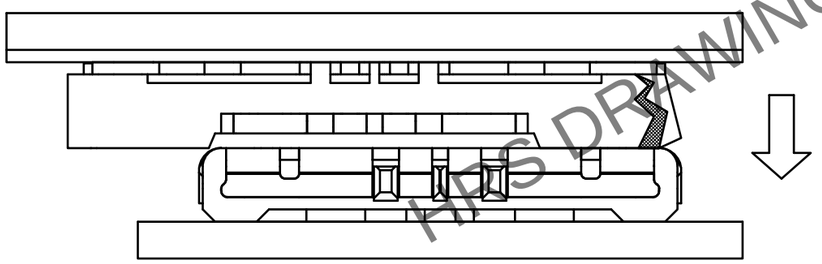
△2

BM25 series connector is intended to carry 10A electrical current for battery application.
FPC may have less flexibility than usual, since the copper foil becomes wider and thicker to carry current of 10A.
Please design the FPC to have a flexibility to absorb the displacement* of the connector cased by fixing PCB and battery.

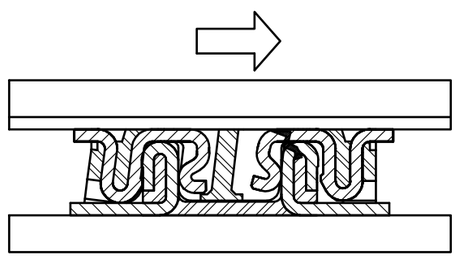


*Possible problems caused by connector mating in incorrect positioning.
Mating the connector in incorrect positioning could lose the function of the connector.

① Insulator could be broken.



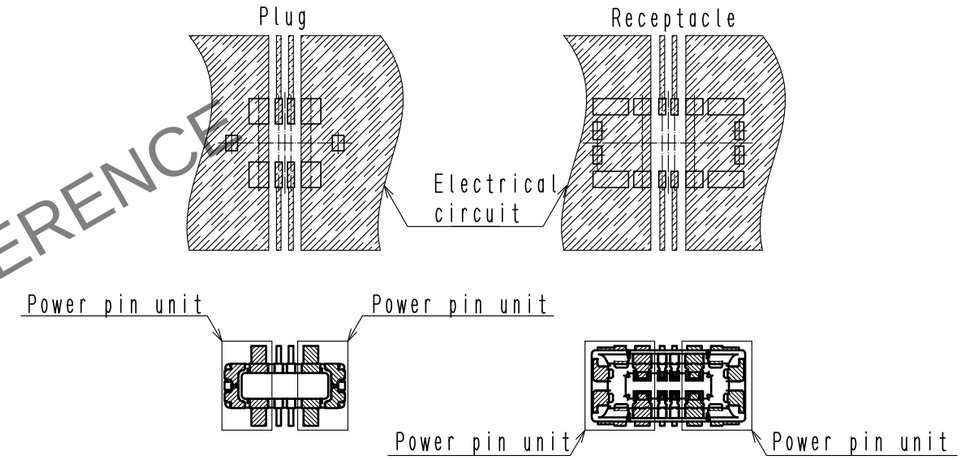
② It could apply excessive mechanical stress to single side of the contact.



How to draw the electrical circuit

As shown in the figure below , each power supply unit including the lock metal fitting has to be mounted on the same PCB circuit.

◆Recommended electrical circuit layout



HRS DRAWING FOR REFERENCE

HRS	DRAWING NO.	EDC-358233-53-01
	PART NO.	BM25-4S/2-V(53)
	CODE NO.	CL677-1200-0-53 △2 4/4