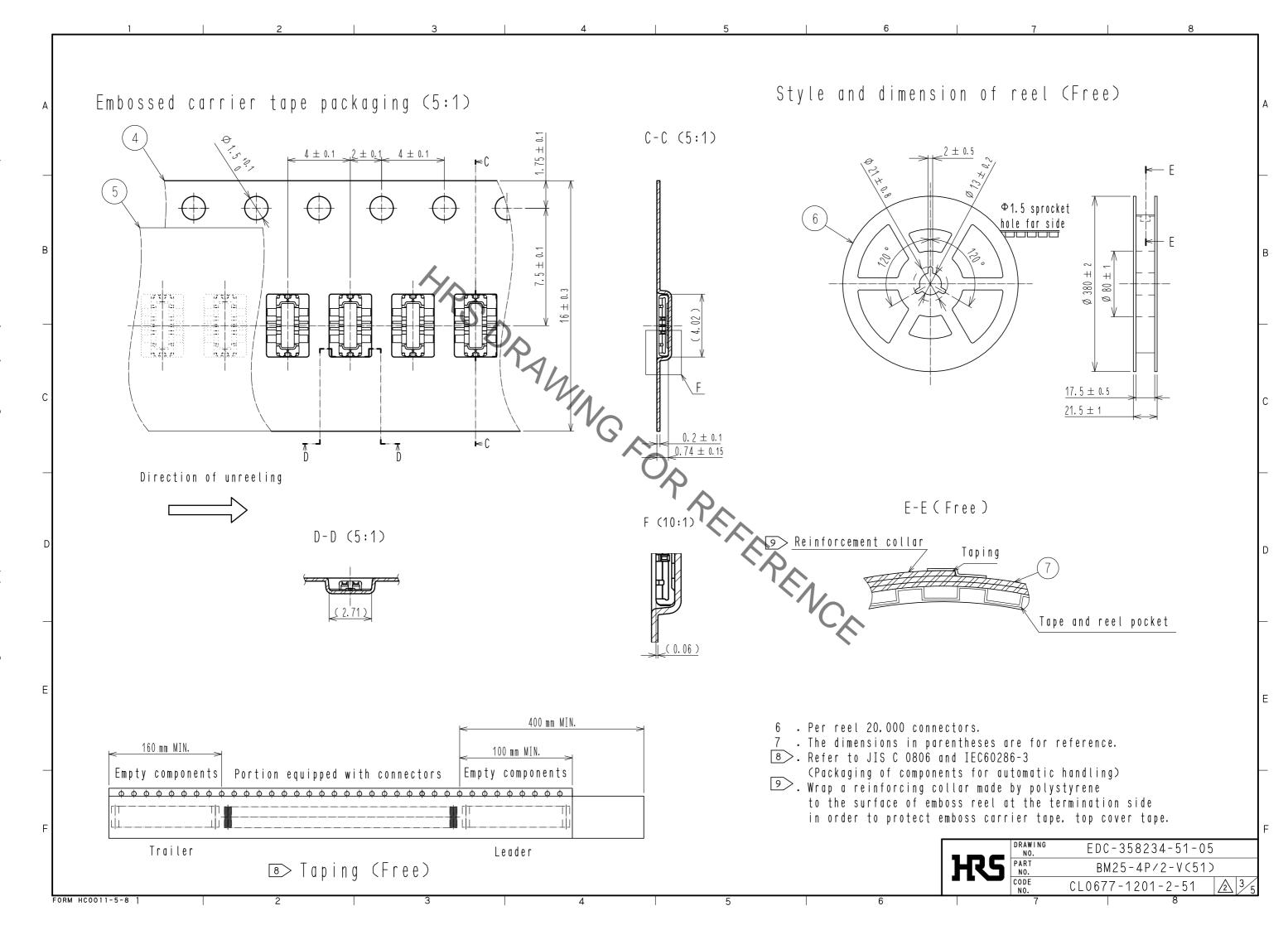


FORM HC0011-5-8

Recommended reflow temperature profile using lead-free solder paste. ◆ Recommended PCB layout MAX 250 °C 3.47 ± 0.02 1.7 ± 0.02 220 °C (0.83) 0.4 ± 0.02 180 °C \bigcirc EMPERATURE 150 °C ARS ORAMING ROP PEREPAR 0.23 ± 0.02 90∼120 sec. MAX 60 sec. PRE-HEATING TIME SOLDERING TIME Recommended metal mask dimensions TIME (sec.) Metal mask thickness: 100 4 m Reflow method: IR reflow Number of reflow cycles: 2 cycles MAX. 1)Reflow time Duration above 220°C, 60 sec MAX. (Peak temperature:250℃ MAX) ≥>Pre-heat time 3.47 ± 0.02 Pre-heat temperature(MIN):150℃ Pre-heat temperature(MAX):180℃ 1.7 ± 0.02 (0.58) re-heut time:90-120 sec. 0.4 ± 0.02 0.83) 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, 0.38 ± 0.01 depending on solder paste type.volume/thickness and board size/thickness. Consult your solder paste and equipment manufacturer for specific 0.23 ± 0.01 5. Please contact us in case you will make different settings 0.64 ± 0.01 from our recommendation.

HRS | DRAWING | EDC-358234-51-05 | PART | NO. | BM25-4P/2-V(51) | CDDE | NO. | CL0677-1201-2-51 | 2 | 2 |



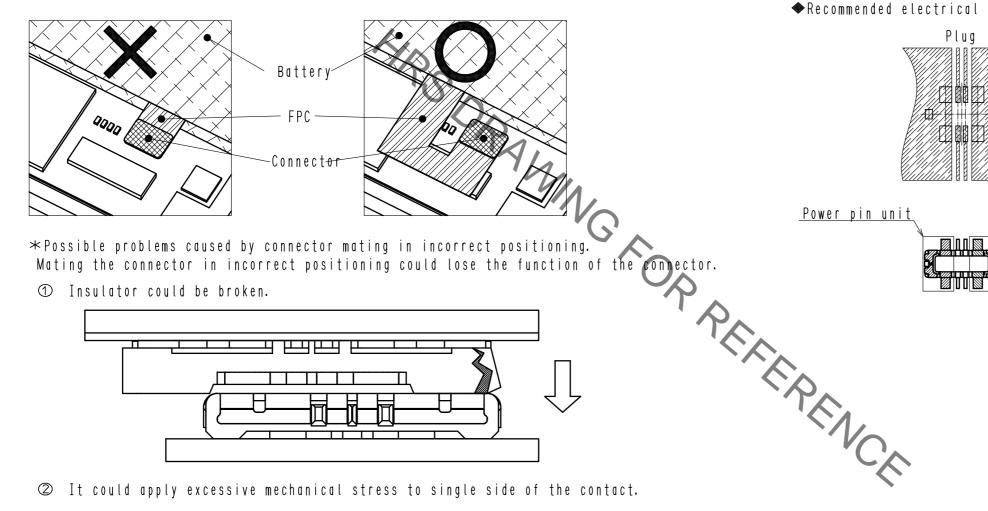
△ 10. PLEASE REFER TO THE PRODUCT GUIDELINE ETAD-H1018 FOR DETAIL OF CONNECTOR HANDLING.

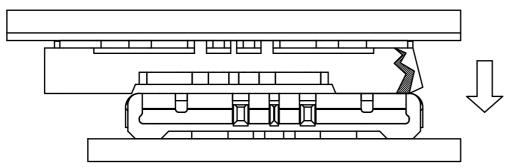
How to draw the FPC

How to draw the electrical circuit

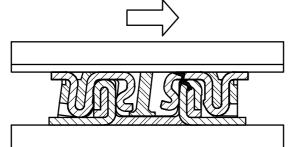
BM25 series connector is intended to carry 10A electrical current for battery application. FPC may have less flexibility than usual, since the copper foil becomes wider and thicker to carry

Please design the FPC to have a flexibility to absorb the displacement* of the connector cased by fixing PCB and batterv.



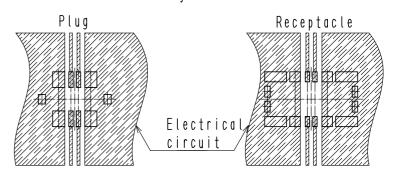


② It could apply excessive mechanical stress to single side of the contact.

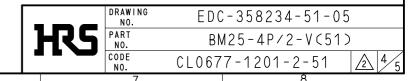


As shown in the figure below, each power supply unit including the lock metal fitting has to be mounted on the same PCB circuit.

◆Recommended electrical circuit lavout



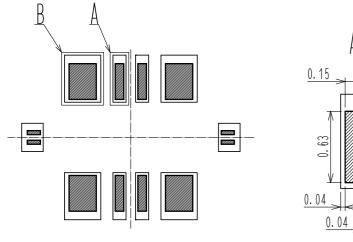
Power pin unit Power pin unit



Power pin unit

FORM HC0011-5-8 1

THE POSITION BETWEEN THE CONNECTOR AND PAD



Connector lead on PAD layout ☐ PAD layout

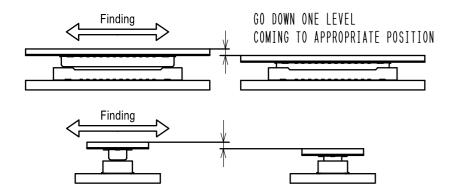
MATING METHOD

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 '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.



(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.

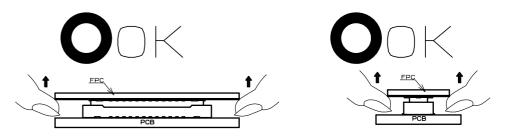


(3) MAKE SURE THE CONNECTORS ARE MATED CORRECTLY. IF ONE SIDE IS FLOATING OR THE CONNECTORS ARE MATED IN ONE DIRECTION, UN-MATE THEM ONCE, AND THEN MATE THEM AGAIN, FOLLOWING THE PROCEDURES ABOVE FROM THE BEGINNING.

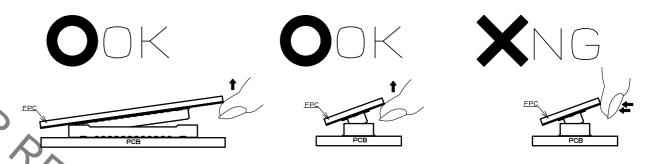
UN-MATING METHOD

PLEASE UN-MATE THE CONNECTOR BY HAND

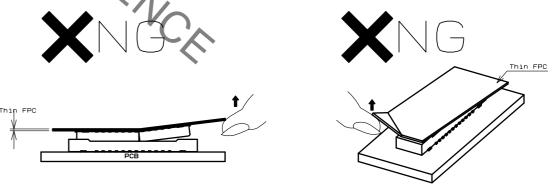
(1) UN-MATE THE CONNECTORS PARALLEL TO EACH OTHER. HOWEVER, IF THE CONNECTORS HAVE HIGH PIN COUNTS OR THINNER FPC AND STIFFENER, IT BECOMES MORE DIFFICULT TO DO SO.

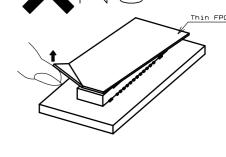


(2) IF THE CONNECTOR CANNOT BE UN-MATED PARALLEL IT CAN BE REMOVED DIAGONALLY FROM THE PITCH DIRECTION. BE CAREFUL TO DO SO SINCE THIS ACTION APPLIES STRESS ON THE CONTACT.



FPC IS NOT RIGID. THE CONNECTOR CAN BE BROKEN. PLEASE CHECK THE ACTION OF THE FPC TO BE USED REPEATERLY AT THE TIME OF TRIAL PRODUCTION. BE CAREFUL TO UN-MATE THEM FROM THE PITCH DIRECTION, DM THE CORNER CAN ALSO RISK TO PUTTING STRESS ON CONTACTS.





HS.	DRAWING NO.	EDC-358234-51-05
	PART NO.	BM25-4P/2-V(51)
	CODE NO.	CL0677-1201-2-51 🛕 5 g

FORM HC0011-5-8 1

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