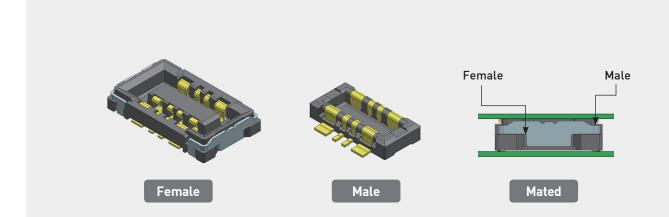


Applications | Smart Phone, Smart Watch, Tablet PC, Mobile Devices, Wearable Devices



- ▶ For contact stability, Double Contact and Bellows Type Contact Structure
- ► High current(3A) for Power Contact
- ▶ 0.75mm slim stacking design for saving space
- ▶ APPLICATION : Battery section of miniature mobile devices
- ▶ Male Full-Insert Structure

Code & Specification

Mating Size / Unit : (mm)

Product Code	Pitch (mm)	No. of Contacts	Width (mm)	Height (mm)	Length	Remark
BF240-I08B-C08	2.40	8	2.50	0.80	4.20	Receptacle
BM240-I08B-C08	2.40	8	2.50	0.80	4.20	Plug

Rated Current	Contact Resistance	Dielectric Strength	Temperature Range
Signal 0.3A/Pin Power 3.0A/Pin	Signal $50m\Omega$ [Max.] Power $10m\Omega$ [Max.]	250V AC(RMS)	-35°C ∼ 85°C



Applications | Smart Phone, Smart Watch, Tablet PC, Mobile Devices, Wearable Devices

Product Specification

Datings	Rated current	Signal : 0.3A/Pin Power : 3.0A/Pin	Operating temperature range	-35°C to +85°C 1	Storage temperature range	+15°C to +35 °C
Ratings	Rated	30V AC(RMS) / DC	Operating	70%RH	Storage	65%RH
voltage 30V AC(R	30V AC(RIVIS) / DC	humidity range	Max.2	humidity range	Max. 2	

¹⁾ Including terminal temperature rise.

²⁾ Storage area is to be free of corrosive gases and dew formation.

Items	Specifications	Conditions
Contact resistance	- Signal : 50mΩ [Max.] - Power : 10mΩ [Max.]	- Open circuit voltage: 20mV (AC) - Test current: 1mA.
2. Insulation resistance	100MΩ [Min.]	250V DC
3. Withstanding voltage	No flashover or dielectric breakdown	250V AC(RMS) for 1minute
Insertion force / Separation force	1) Insertion force : 3.57kgf [Max.] 2) Separation force : 0.51kgf [Min]	Insert and withdraw connectors at the speed rate of 25mm per minute.
5. Durability	Contact Resistance - Signal : $70m\Omega$ [Max] - Power : $20m\Omega$ [Max]	When mated up to 30 cycles repeatedly by the rate of 10mm per minute
6. Vibration	 Discontinuity: 1.0 microsec. [Max.] Contact Resistance Signal: 70mΩ [Max] Power: 20mΩ [Max] 	 Vibration frequency range: 10~55Hz Total amplitude: 1.5mm Sweep ration: 10-55-10Hz/Min Duration: 2h each (6h in total)
7. Shock	 Discontinuity: 1.0 microsec. [Max.] Contact Resistance Signal: 70mΩ [Max] Power: 20mΩ [Max] 	 Acceleration: 50G (490m/s²) Duration: 11ms Number of shocks: 3 times per each direction Test current: 100mA
8. Humidity	 Contact resistance Signal : 70mΩ [Max.] Power : 20mΩ [Max.] Insulation resistance : 50MΩ [Min.] 	- Temperature : 40°C±2°C - Relative humidity : 90% RH to 95% RH - Duration : 96hr
9. Solder heat resistance	No loose contacts no deformation.	Reflow condition. (Refer to Reflow) Temperature: 240 0- 150 0-175 0 Temperature: Masimum temperature 240 0- 150 0-175 0 Tre-heating 100s ±30s - 40s ±10s

Materials / Finish

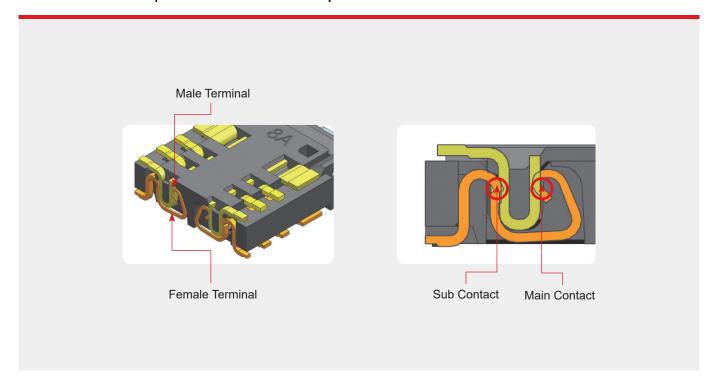
Part	Materials	Finish	UL Regulation
Female Base	LCP	Black	UL94V-0
Female Terminal	Copper Alloy	Au plated	-
Female Fitting Nail	Phosphor Bronze	Au plated	-
Male Base	LCP	Black	UL94V-0
Male Terminal	Copper Alloy	Au plated	-



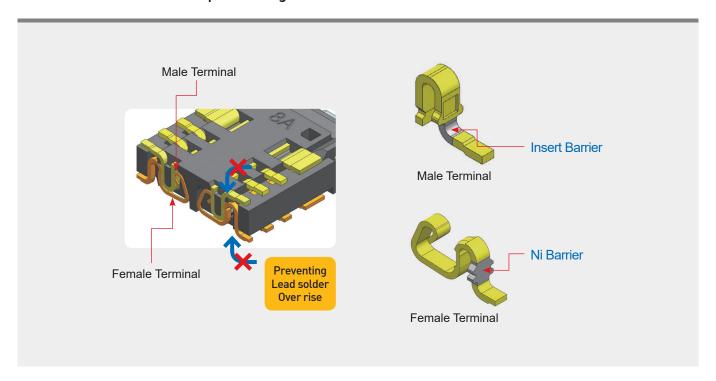
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FEATURES AND ADVANTAGES

▶ Double Contact point for stable contact preservation



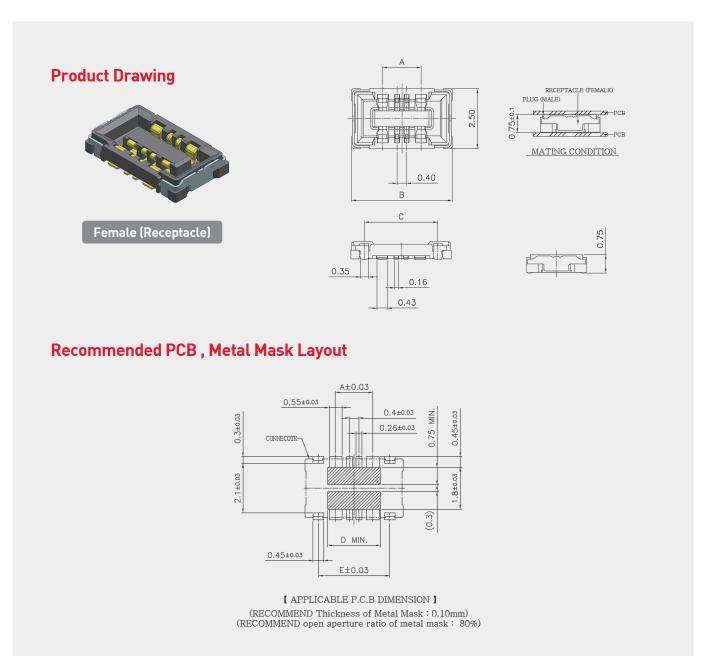
Insert or Ni Barrier for preventing Lead solder over rise





Applications | Smart Phone, Smart Watch, Tablet PC, Mobile Devices, Wearable Devices

TYPE: RECEPTACLE (FEMALE)



Mating Size / Unit : (mm)

Product No.	No. of Contacts	Α	В	С	D	E
BF240-I08B-C08	Signal 4, Power 4	1.60	4.20	3.06	2.25	3.06



Applications | Smart Phone, Smart Watch, Tablet PC, Mobile Devices, Wearable Devices

TYPE: PLUG (MALE)

Product Drawing RECEPTACLE (FEMALE) PLUG (MALE) MATING CONDITION В Male (Plug) 0.63 0.14 0.50 Recommended PCB, Metal Mask Layout A±0.03 0.62±0.03 0.4±0.03 0.24±0.03 CONNECTOR (1.16)

[APPLICABLE P.C.B DIMENSION]

C MIN.

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(RECOMMEND Thickness of Metal Mask: 0.10 mm) (RECOMMEND open aperture ratio of metal mask: 80%)

Mating Size / Unit : (mm)

Product No.	No. of Contacts	A	В	С
BM240-I08B-C08	Signal 4, Power 4	1.60	3.30	2.32