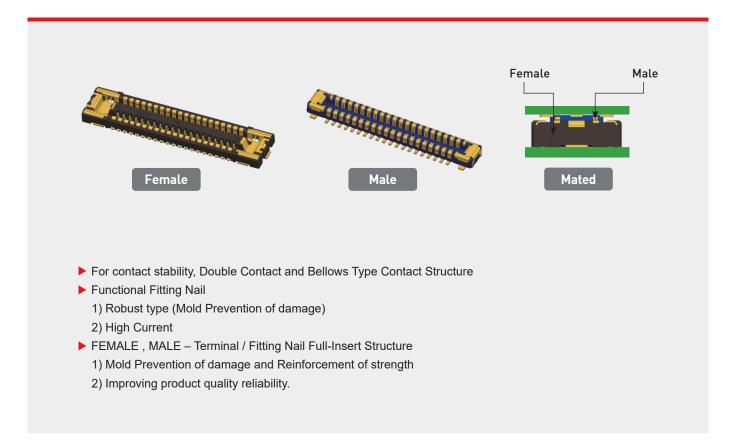
Applications | Smart Phone, Smart Watch, Tablet PC, Mobile Devices, Wearable Devices



Code & Specification

Mating Size / Unit : (mm)

BJ

Product Code	Pitch (mm)	No. of Contacts	Width (mm)	Height (mm)	Length	Remark
BF035-I20B-C08-D	0.35	20	2.20	0.80	6.86	Receptacle
BM035-I20B-C08-D	0.35	20	2.20	0.80	6.86	Plug
BF035-I40B-C08-D	0.35	40	2.20	0.80	10.36	Receptacle
BM035-I40B-C08-D	0.35	40	2.20	0.80	10.36	Plug

Rated Current	Contact Resistance	Dielectric Strength	Temperature Range
Signal 0.3A/Pin Power 4.0A/Pin	Signal 50mΩ [Max.] Power 30mΩ [Max.]	AC 250V	-35°C ~ 85°C

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



Product Specification

	Rated	Signal : 0.3A/Pin	Operating	-35°C	Storage	-10°C to +60 °C
Potingo	current	Power : 4.0A/Pin	temperature range	to +85°C 1	temperature range	(Product only)
Ratings	Rated		Operating	85%RH	Storage	65%RH
	voltage	30V AC(RMS) / 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
1. Contact resistance	- Signal : 50mΩ [Max.] - Power : 30mΩ [Max.]	- Open circuit voltage: 20mV (AC) - Test current: 1mA.
2. Insulation resistance	50MΩ [Min.]	250V DC
3. Withstanding voltage	No flashover or dielectric breakdown	250V AC(RMS) for 1minute
4. Insertion force / Separation force	1) Insertion force : 5.0kgf [Max.] 2) Separation force : 0.012kgf/Pin [Min]	Insert and withdraw connectors at the speed rate of 25mm per minute.
5. Durability	1) Contact resistance - Signal : 90mΩ [Max.] - Power : 50mΩ [Max.]	When mated up to 30 cycles repeatedly by the rate of 10mm per minute
6. Vibration	1) Discontinuity : 1.0 microsec. [Max.] 2) Contact resistance - Signal : 90mΩ [Max.] - Power : 50mΩ [Max.]	- Vibration frequency range : 10~55Hz - Total amplitude : 1.5mm - Sweep ration : 10-55-10Hz/Min - Duration : 2h each (6h in total)
7. Shock	1) Discontinuity : 1.0 microsec. [Max.] 2) Contact resistance - Signal : 90mΩ [Max.] - Power : 50mΩ [Max.]	 Acceleration : 50G (490m/s²) Duration : 11ms Number of shocks : 3 times per each direction Test current : 100mA
8. Humidity	1) Contact resistance - Signal : 90mΩ [Max.] - Power : 50mΩ [Max.] 2) Insulation resistance : 25MΩ [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)

Materials / Finish

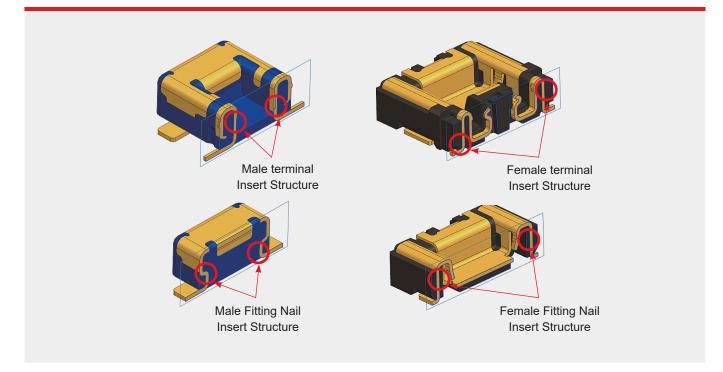
Part	Materials	Finish	UL Regulation
Female Base	LCP	Black	UL94V-0
Female Terminal	Phosphor Bronze	Au, Ni plated	-
Female Fitting Nail	Copper Alloy	Au, Ni plated	-
Male Base	LCP	Black	UL94V-0
Male Terminal	Phosphor Bronze	Au, Ni plated	-
Male Fitting Nail	Copper Alloy	Au, Ni plated	-

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

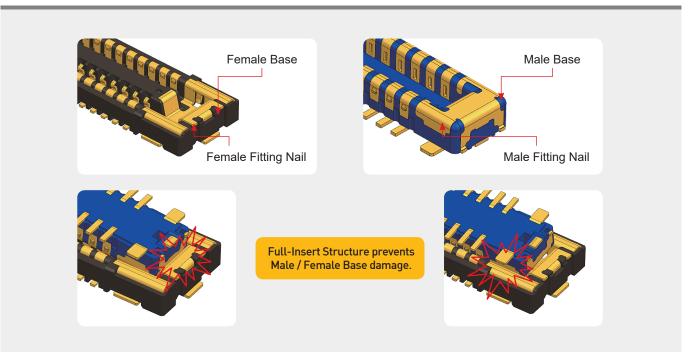


FEATURES AND ADVANTAGES

Insert Structure for preventing Lead solder over rise



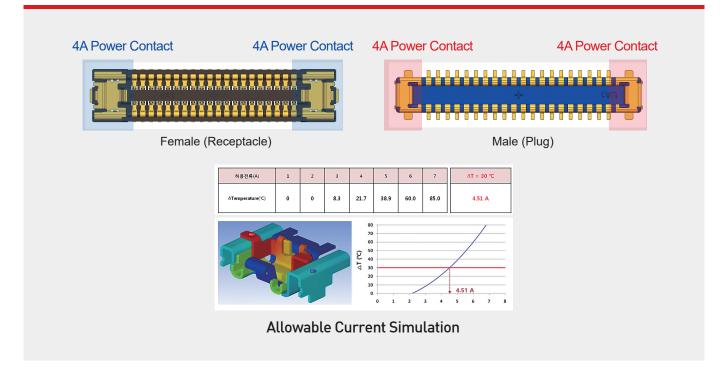
Full-Insert Structure for prevention of Base damage



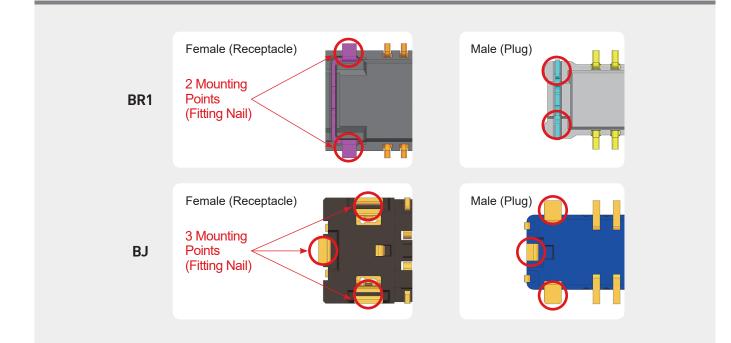
Applications | Smart Phone, Smart Watch, Tablet PC, Mobile Devices, Wearable Devices



High current(4A) for Power Contact



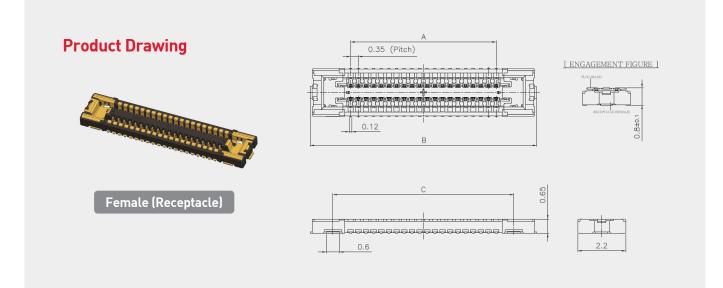
Three Fitting Nail Leads for reinforced Solder Peeling Strength



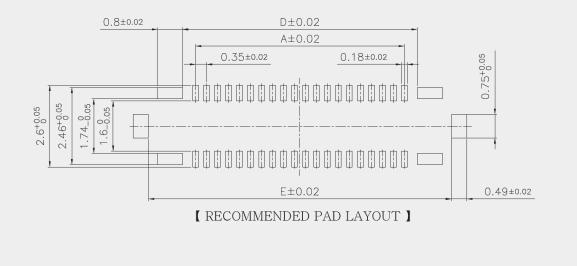
Applications | Smart Phone, Smart Watch, Tablet PC, Mobile Devices, Wearable Devices



TYPE : RECEPTACLE (FEMALE)



Recommended PCB , Metal Mask Layout



Mating Size / Unit : (mm)

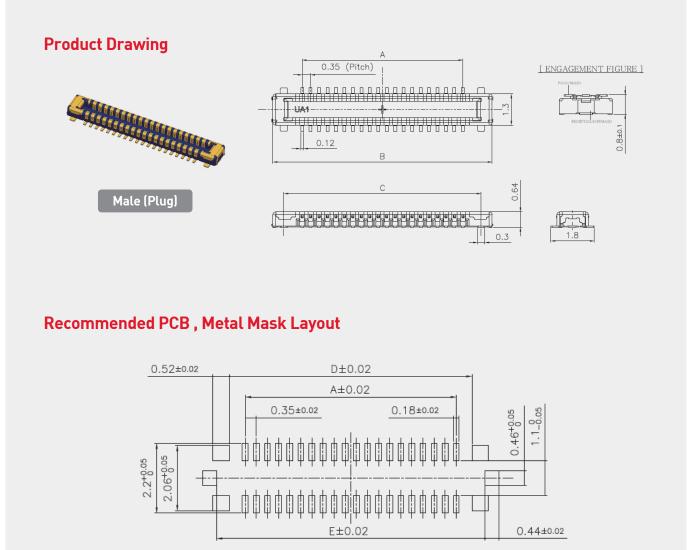
Product No.	No. of Contacts	А	В	С	D	E
BF035-I20B-C08-D	20	3.15	6.86	4.77	3.97	6.15
BF035-I40B-C08-D	40	6.65	10.36	8.27	7.47	9.65

В

Board To Board Connector

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

TYPE : PLUG (MALE)



[RECOMMENDED PAD LAYOUT]

Mating Size / Unit : (mm)

Product No.	No. of Contacts	А	В	с	D	E
BM035-I20B-C08-D	20	3.15	5.57	4.66	4.14	4.96
BM035-I40B-C08-D	40	6.65	9.07	8.16	7.64	8.46