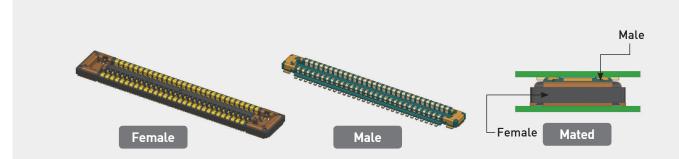


Applications | Smart Phone, Smart Watch, Tablet PC, Mobile Devices, Wearable Devices



- ▶ For contact stability, Double Contact and Bellows Type Contact Structure
- ▶ 0.3mm pitch, 0.6mm slim stacking design for saving space
- ► Functional Fitting Nail
 - 1) Robust type (Mold Prevention of damage)
 - 2) High Current
- ▶ Female, Male Terminal / Fitting Nail Full-Insert Structure
 - 1) Prevention of Base damage and Reinforcement of strength
 - 2) Improving product quality reliability.

Code & Specification

Mating Size / Unit : (mm)

Product Code	Pitch (mm)	No. of Contacts	Width (mm)	Height (mm)	Length	Remark
BF030-I60B-C06-C	0.30	60	2.00	0.60	11.90	Receptacle
BM030-I60B-C06-C	0.30	60	2.00	0.60	11.90	Plug
BF030-I78B-C06-C	0.30	78	2.00	0.60	14.60	Receptacle
BM030-I78B-C06-C	0.30	78	2.00	0.60	14.60	Plug

Rated Current	Contact Resistance	Withstanding voltage	Temperature Range
Signal 0.3A/Pin Power 5.0A/Pin	Signal 50mΩ [Max.] Power 30mΩ [Max.]	250V AC(RMS)	-35°C ∼ 85°C



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Product Specification

	Rated	Signal : 0.3A/Pin	Operating	-35°C	Storage	+15°C
Botingo	current	Power : 5.0A/Pin	temperature range	to +85°C	temperature range	to +35 °C
Ratings	Rated	20\/ A C/DMC\/DC	Operating	70%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
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	 Discontinuity: 1.0 microsec. [Max.] 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	 Discontinuity : 1.0 microsec. [Max.] 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.]	Temperature: 40°C±2°CRelative humidity: 90% RH to 95% RHDuration: 96hr
9. Solder heat resistance	No loose contacts no deformation.	Reflow condition. (Refer to Reflow)

Materials / Finish

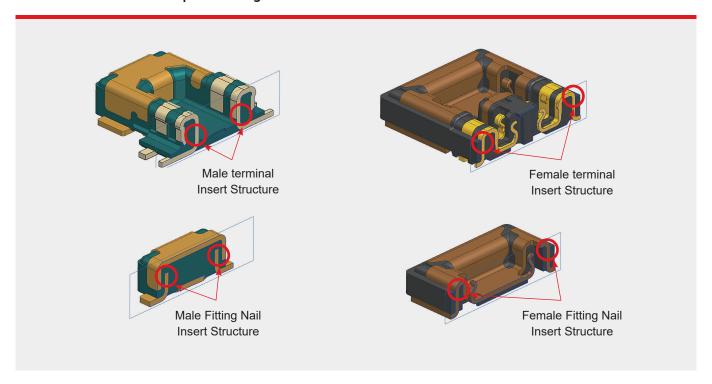
Part	Materials	Finish	UL Regulation
Female Base	LCP	Black	UL94V-0
Female Terminal	Phosphor Bronze	Au, Ni plated	-
Female Fitting Nail	Copper Alloy	Au, Ni plated	-
Female Inner Nail	Copper Alloy	Ni plated	-
Male Base	LCP	Black	UL94V-0
Male Terminal	Phosphor Bronze	Au, Ni plated	-
Male Fitting Nail	Copper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



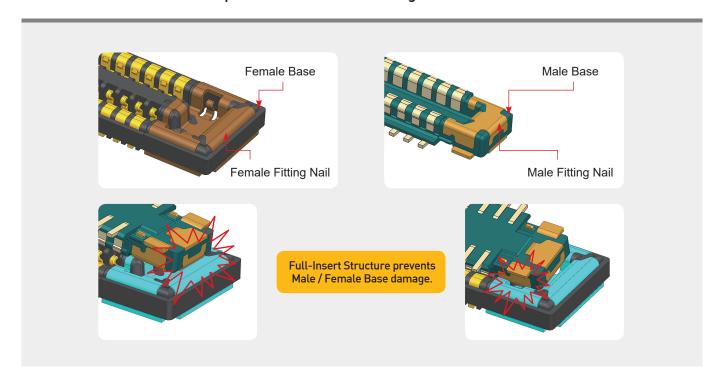
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FEATURES AND ADVANTAGES

▶ Insert Structure for preventing Lead solder over rise



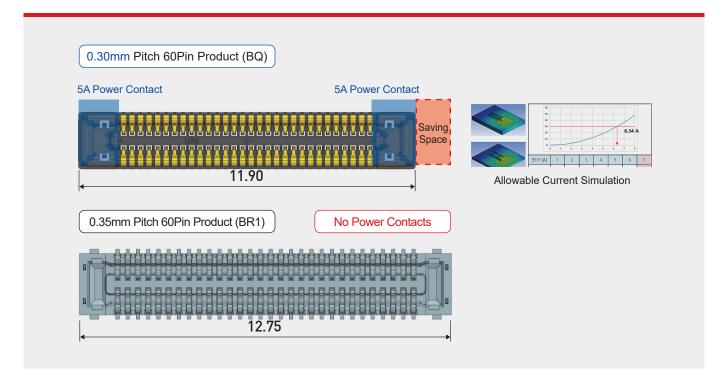
► Full-Insert Structure for prevention of Base damage



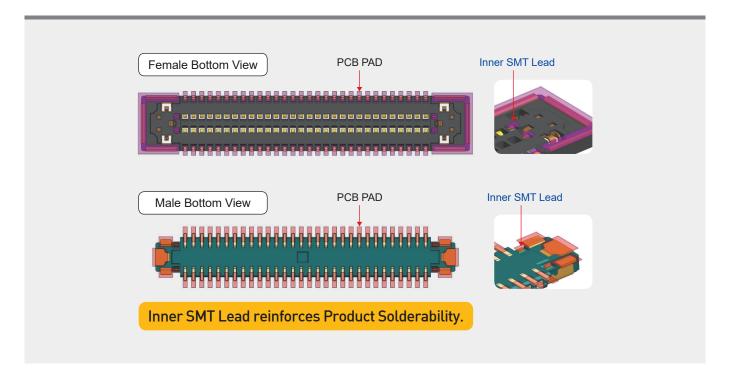


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- ▶ 0.3mm narrow pitch for saving space
- ► High current (5A) for Power Contact



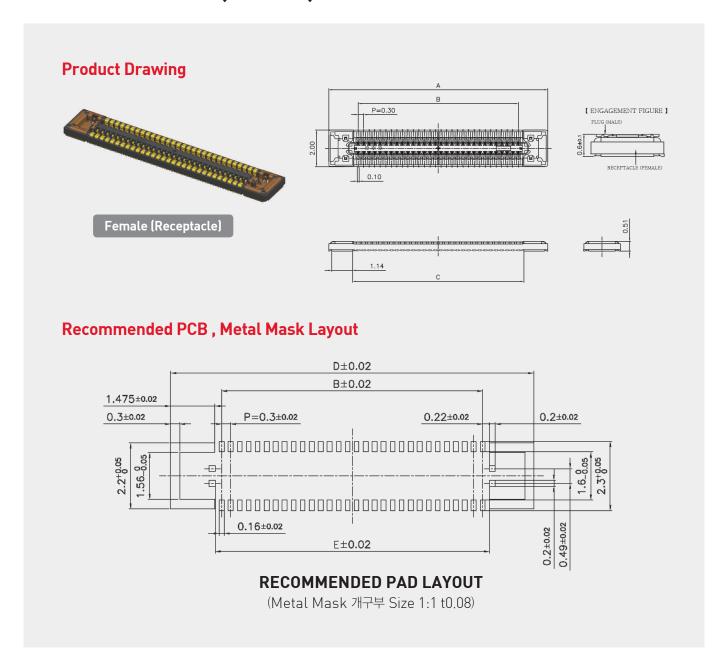
► Inner SMT Lead for reinforced Solder Peeling Strength





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TYPE: RECEPTACLE (FEMALE)



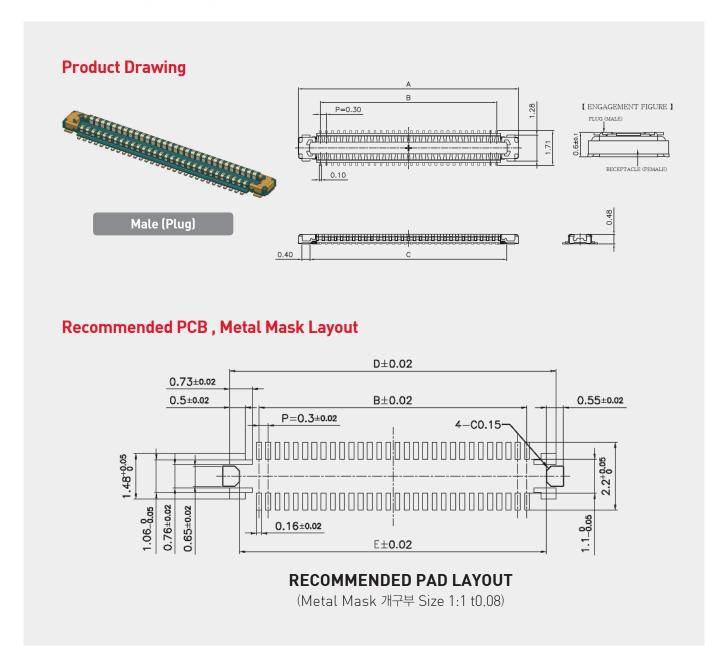
Mating Size / Unit : (mm)

Product Code	No. of Ocutoote	BQ : Receptacle			PCB PAD	
	No. of Contacts	A	В	С	D	E
BF030-I60B-C06-C	60	11.90	8.70	9.30	12.10	9.14
BF030-I78B-C06-C	78	14.60	11.40	12.00	14.80	11.84



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TYPE: PLUG (MALE)



Mating Size / Unit : (mm)

Product Code No. of C	N. CO.	BQ : Plug			PCB PAD	
	No. of Contacts	Α	В	С	D	E
BM030-I60B-C06-C	60	10.86	8.70	9.70	10.60	9.96
BM030-I78B-C06-C	78	13.56	11.40	12.40	13.30	12.66