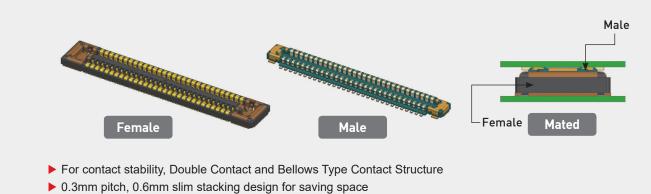


Applications | Smart Phone, Smart Watch, Tablet PC, Mobile Devices, Wearable Devices



- ► 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-I24B-C06-C	0.30	24	2.00	0.60	6.50	Receptacle
BM030-I24B-C06-C	0.30	24	2.00	0.60	5.46	Plug
BF030-I30B-C06-C	0.30	30	2.00	0.60	7.40	Receptacle
BM030-I30B-C06-C	0.30	30	2.00	0.60	6.36	Plug
BF030-I32B-C06-C	0.30	32	2.00	0.60	7.70	Receptacle
BM030-I32B-C06-C	0.30	32	2.00	0.60	6.66	Plug
BF030-I40B-C06-C	0.30	40	2.00	0.60	8.90	Receptacle
BM030-I40B-C06-C	0.30	40	2.00	0.60	7.86	Plug
BF030-I50B-C06-C	0.30	50	2.00	0.60	10.40	Receptacle
BM030-I50B-C06-C	0.30	50	2.00	0.60	9.36	Plug
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



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

Product Specification

Datings	Rated current	Signal : 0.3A/Pin Power : 5.0A/Pin	Operating temperature range	-35°C to +85°C	Storage temperature range	+15°C to +35 °C
Ratings	Rated	20\/ AC(PMS\/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 : $90m\Omega$ [Max.] - Power : $50m\Omega$ [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

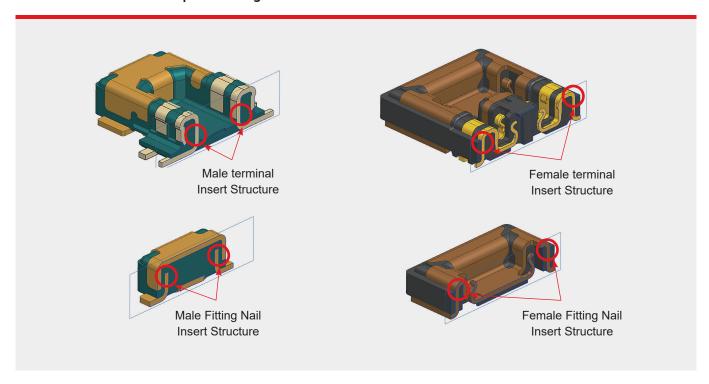
Part	Materials	Finish	UL Regulation	
Female Base	LCP	Black	UL94V-0	
Female Terminal	Phosphor Bronze	Au, Ni plated	-	
Female Fitting Nail	Copper Alloy	Au, Ni plated	-	
Female Inner Nail	Copper Alloy	Ni plated	-	
Male Base	LCP	Black	UL94V-0	
Male Terminal	Phosphor Bronze	Au, Ni plated	-	
Male Fitting Nail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



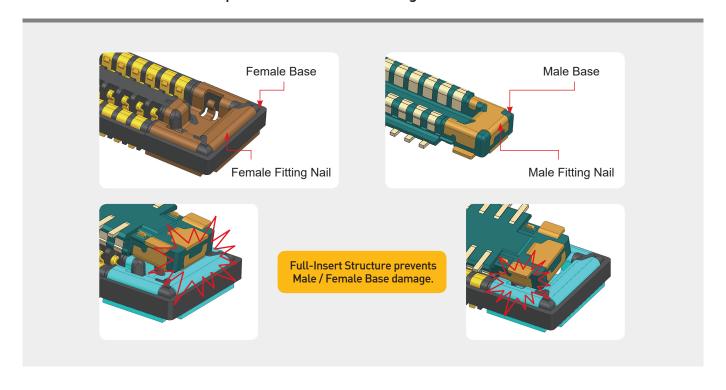
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FEATURES AND ADVANTAGES

▶ Insert Structure for preventing Lead solder over rise



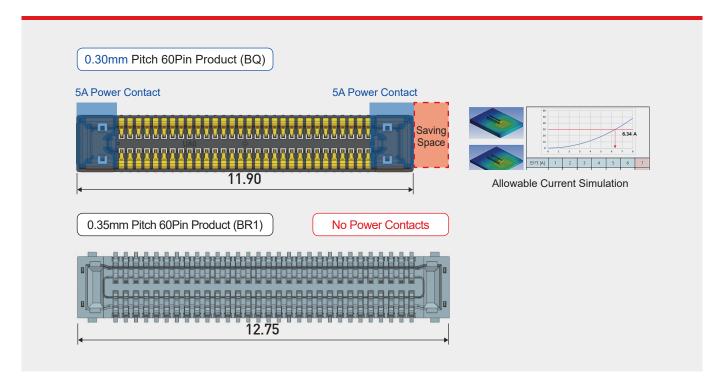
► Full-Insert Structure for prevention of Base damage



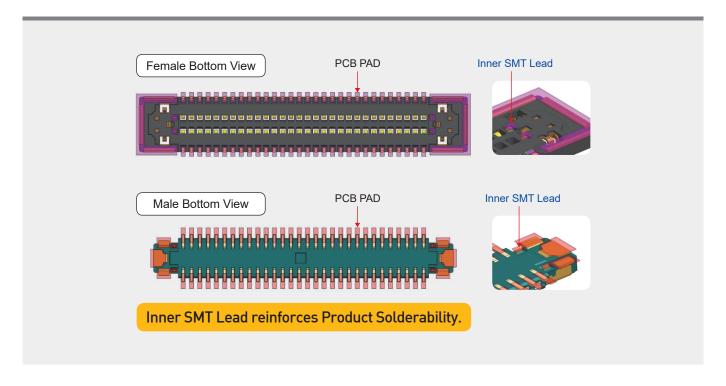


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- ▶ 0.3mm narrow pitch for saving space
- ► High current (5A) for Power Contact



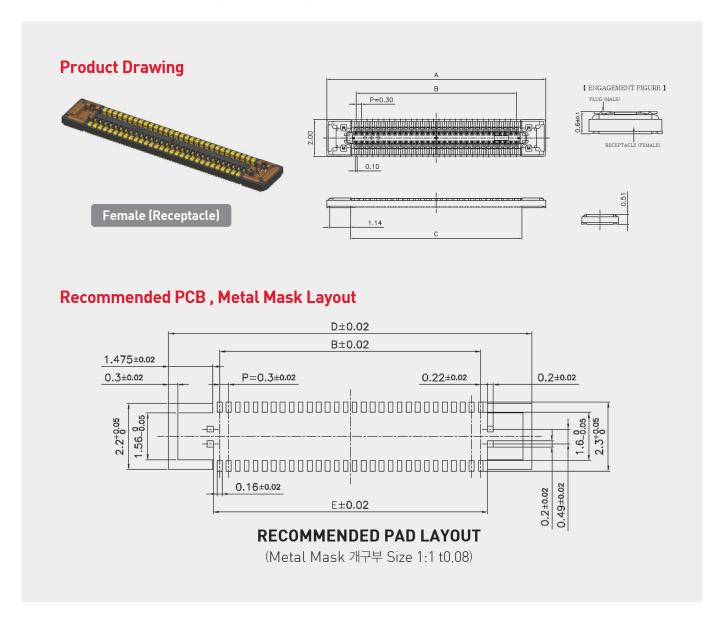
► Inner SMT Lead for reinforced Solder Peeling Strength





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TYPE: RECEPTACLE (FEMALE)



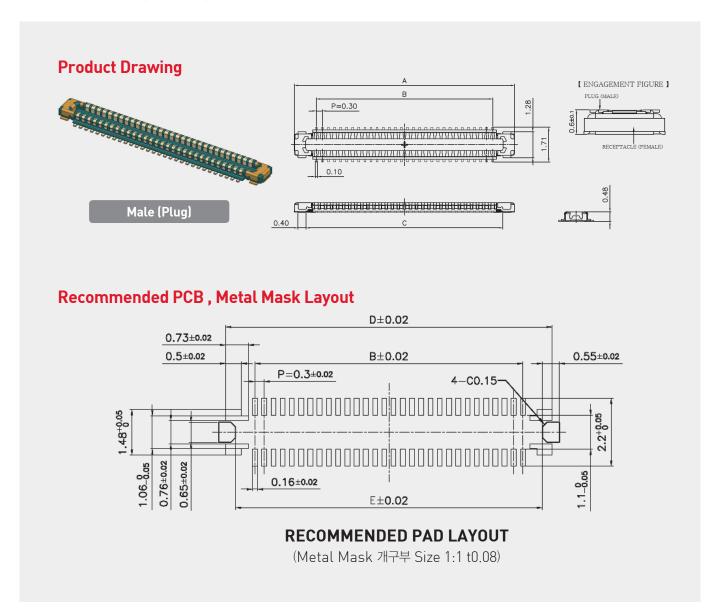
Mating Size / Unit : (mm)

Product Code	No. of Contacts	BQ : Receptacle			PCB PAD	
		Α	В	С	D	E
BF030-I24B-C06-C	24	6.50	3.30	3.90	6.70	3.74
BF030-I30B-C06-C	30	7.40	4.20	4.80	7.60	4.64
BF030-I32B-C06-C	32	7.70	4.50	5.10	7.90	4.94
BF030-I40B-C06-C	40	8.90	5.70	6.30	9.10	6.14
BF030-I50B-C06-C	50	10.40	7.20	7.80	10.60	7.64
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



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

TYPE: PLUG (MALE)



Mating Size / Unit : (mm)

Product Code	No. of Contacts	BQ : Plug			PCB PAD	
		Α	В	С	D	E
BM030-I24B-C06-C	24	5.46	3.30	4.30	5.20	4.56
BM030-I30B-C06-C	30	6.36	4.20	5.20	6.10	5.46
BM030-I32B-C06-C	32	6.66	4.50	5.50	6.40	5.76
BM030-I40B-C06-C	40	7.86	5.70	6.70	7.60	6.96
BM030-I50B-C06-C	50	9.36	7.20	8.20	9.10	8.46
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