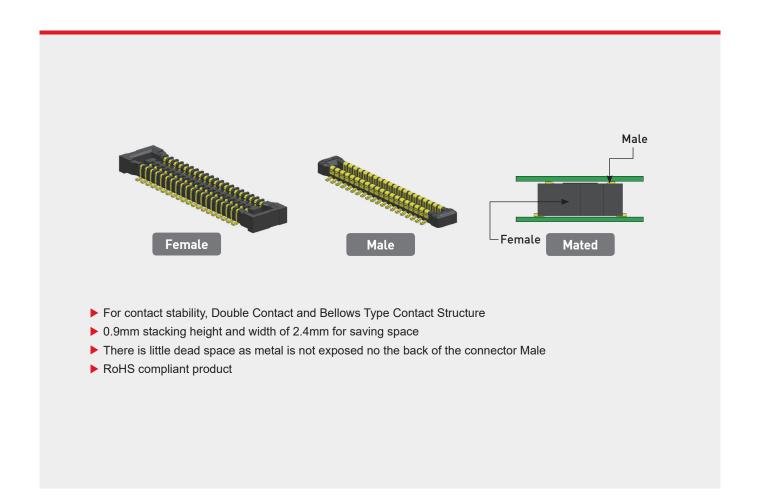
Applications | Smart Phone, Smart Watch, Tablet PC, Mobile Devices, Wearable Devices



Code & Specification

Mating Size / Unit : (mm)

THIN

Product Code	Pitch (mm)	No. of Contacts	Width (mm)	Height (mm)	Length	Remark
BF040-I40B-N09-C	0.40	40	2.40	0.90	0	Receptacle
BM040-I40B-N09-C	0.40	40	2.40	0.90	0	Plug

Rated Current	Contact Resistance	Withstanding voltage	Temperature Range
0.3A	50mΩ [Max.]	250V AC (RMS)	-35°C ~ 85°C

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



Product Specification

	Rated	0.3A	Operating	-35°C	Storage	+15°C
Potingo	current	0.3A	temperature range	to +85°C 1	temperature range	to +35 °C
Ratings	Rated	30V AC(RMS) / DC	Operating	70%RH	Storage	65%RH
	voltage	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
1. Contact resistance	50mΩ [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	Contact resistance : $90m\Omega$ [Max.]	 When mated up to 30 cycles repeatedly by the rate of 10mm per minute
6. Vibration	Discontinuity : 1.0 microsec. [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.]	 Acceleration : 50G (490m/s²) Duration : 11ms Number of shocks : 3 times per each direction Test current : 100mA
8. Humidity	1) Contact resistance - 90mΩ [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

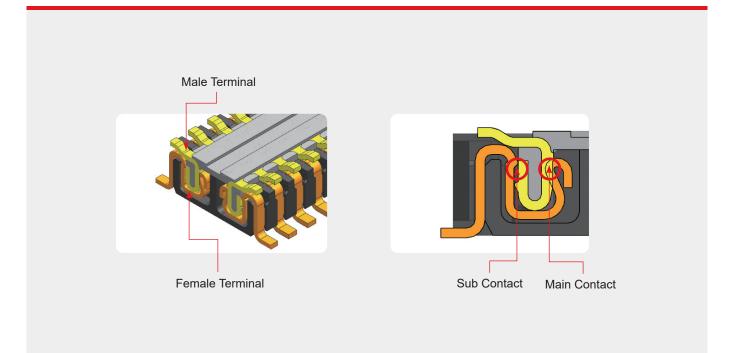
Part	Materials	Finish	UL Regulation
Female Base	LCP	Black	UL94V-0
Female Terminal	Copper Alloy	Au plated	-
Male Base	LCP	Black	UL94V-0
Male Terminal	Phosphor Bronze	Au plated	-

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

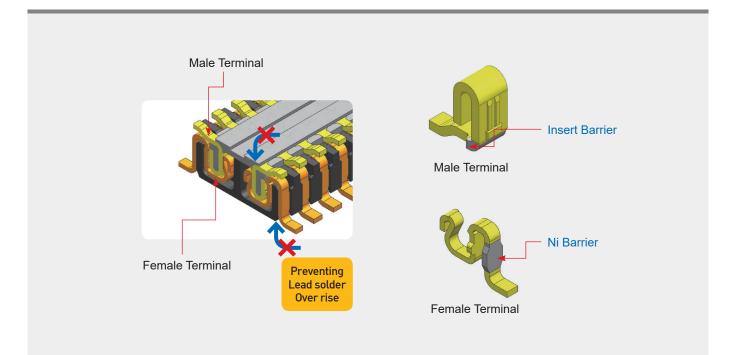


FEATURES AND ADVANTAGES

Double Contact point for stable contact preservation



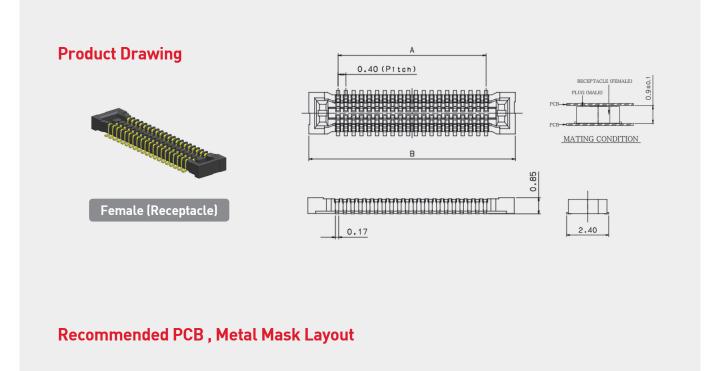
▶ Ni Barrier for preventing Lead solder over rise

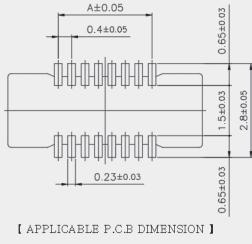


Applications | Smart Phone, Smart Watch, Tablet PC, Mobile Devices, Wearable Devices



TYPE : RECEPTACLE (FEMALE)





Mating Size / Unit : (mm)

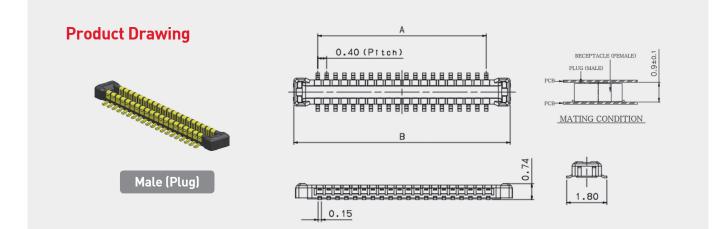
Product No.	No. of Contacts	А	В
BF040-I40B-N09-C	40	7.60	10.60

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

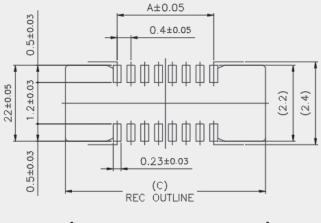
THIN

Mating Size / Unit : (mm)

TYPE : PLUG (MALE)



Recommended PCB , Metal Mask Layout



[APPLICABLE P.C.B DIMENSION]

Product No.	No. of Contacts	А	В	C
BM040-I40B-N09-C	40	7.60	9.76	10.60