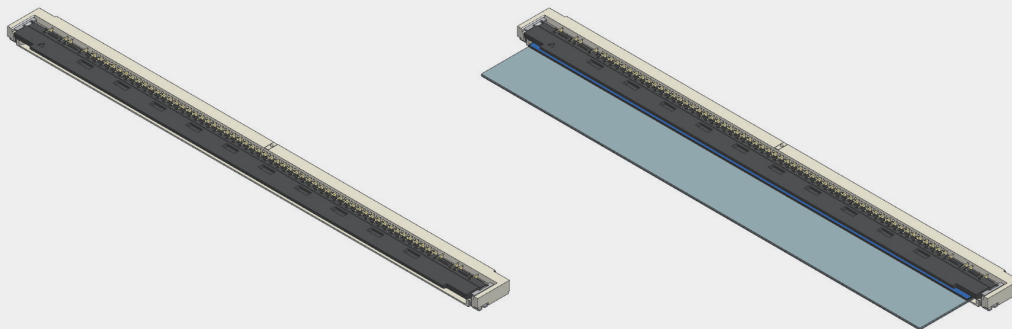


FPC/FFC Connectors

(Mobile)



Applications | Mobile phone, Display, Automotive, Smart watch, Medical equipment, Tablet PC



- ▶ Suitable for high current and Space-saving design
: Power Terminal allowable up to 13A, 0.4mm Pitch Signal Contact
- ▶ Reliable 2-point Signal contact design
- ▶ Applicable for FPC/FFC thickness is 0.30±0.03mm

Code & Specification

Mating Size / Unit : (mm)

Product Code	Pitch (mm)	No. of Contacts	Width (mm)	Height (mm)	Length	Remark
PF040-O110B-C15	0.40	110	5.50	1.50	59.62	-

Rated Current	Contact Resistance	Withstanding voltage	Temperature Range
Signal 0.4A [Max.] Power 13A [Max.]	100mΩ Max.	AC 120V	-35°C ~ 85°C

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Product Specification

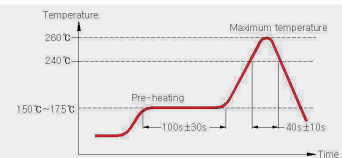
Ratings	Rated current	0.4A Max. (Signal) 13.0A Max (Power)	Operating temperature range	-35°C to +85°C	Storage temperature range	+15°C to +35 °C
	Rated voltage	40V r.m.s	Operating humidity range	85% RH 2	Storage humidity range	65% RH

1) Including terminal temperature rise.

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

Applicable FPC Specification T=0.30±0.03mm, Gold Plated

Items	Specifications	Conditions
1. Contact resistance	200mΩ Max. / contact	Closed circuit Current : 500μA Open circuit voltage : 20mV Max.
2. Insulation resistance	50MΩ Min.	Test voltage : 100V D.C.
3. Withstanding voltage	No flashover or dielectric breakdown	AC 120V for 1minute
4. FPC(FFC) retention force	3.0kgf Min.	Push the Actuator Open/ Close direction at a speed of 25mm/min and measured Actuator operation force.
5. Durability	No damage or mechanical defect Contact resistance : 100mΩ Max. / contact	Number of cycles : 10 cycles.
6. Vibration	No damage or mechanical defect No interruption over 1μ sec. Contact resistance : 100mΩ Max. / contact	Amplitude: 1.5mm Test current : DC 100mA Frequency: 10~55~10Hz Duration : X,Y,Z axis each 2 hours.
7. Shock	No damage or mechanical defect No interruption over 1μ sec.	Peak acceleration : 490%g Half sine wave : (Duration : 11ms) Direction : 3direction (X,Y,Z) Number : 3times per each direction
8. Humidity	No damage or mechanical defect Contact resistance : 100mΩ Max. / contact Insulation Resistance : 500MΩ Min.	Temperature : 40oC±2oC Humidity : 90% ~ 95% Duration : 96hr
9. Thermal shock	No damage or mechanical defect Contact resistance : 100mΩ Max. / contact Insulation Resistance : 500MΩ Min.	Temperature : -55~25~85~25oC 5 cycles
10. Solder heat resistance	Visual inspection : Connector shall meet the design and dimensional requirement3.s of each drawings.	Reflow condition. (Refer to Reflow)



Materials / Finish

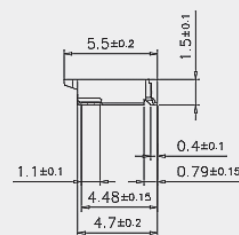
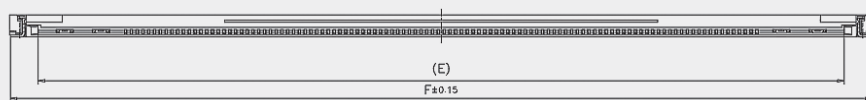
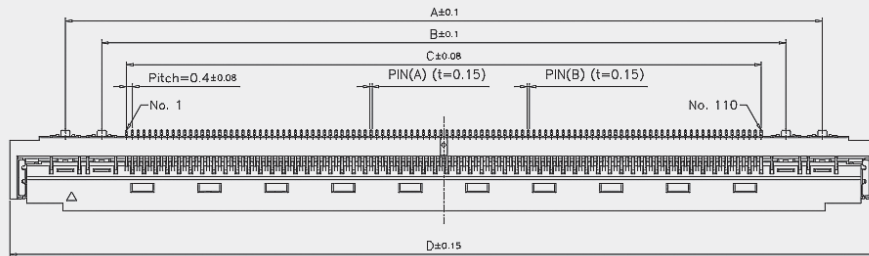
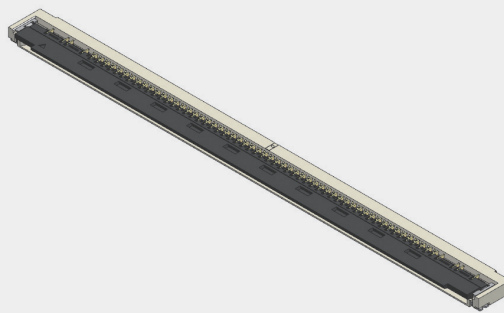
Part	Materials	Finish	UL Regulation
Base	LCP	Natural	UL94V-0
Actuator	PA	Black	UL94V-0
Contact Terminal A	Phosphor Bronze	Au over Nickel	-
Contact Terminal B	Phosphor Bronze	Au over Nickel	-
Power Terminal	Copper Alloy	Au over Nickel	-
Fitting Nail	Phosphor Bronze	Sn over Nickel	-



FPC/FFC Connectors (Mobile)

Applications | Mobile phone, Display, Automotive, Smart watch, Medical equipment, Tablet PC

Product Drawing



Mating Size / Unit : (mm)

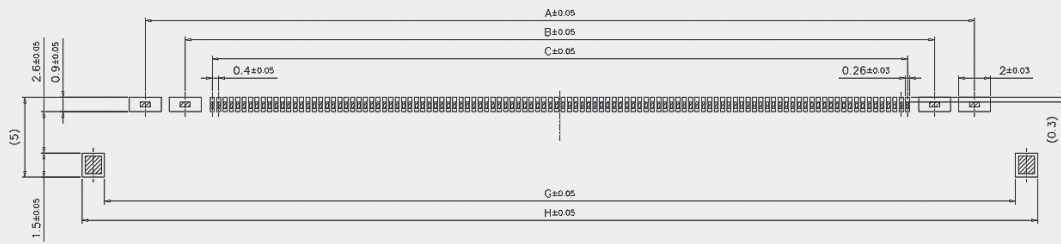
Product No.	No. of Contacts	A	B	C	D	E	F
PF040-O110B-C15	110	52.00	47.00	43.66	59.62	55.66	59.52

FPC/FFC Connectors (Mobile)

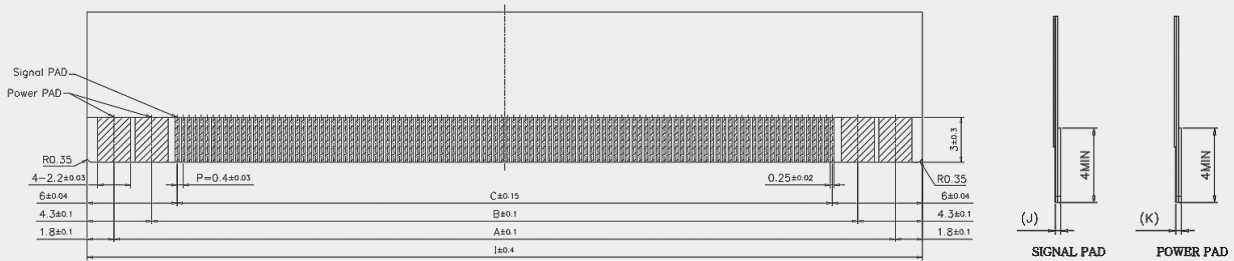


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Recommended PCB Layout, Metal Mask dimensions



Recommended FFC/FPC Dimensions



	Signal Pad		Power Pad		Remark
	Copper Foil	Thickness (J)	Copper Foil	Thickness (J)	
FFC	2oz	0.3±0.03	2oz	0.3±0.03	FFC Type1
	1oz	0.3±0.03	2oz	0.335±0.03	FFC Type2
FPC	2oz	0.3±0.03	2oz	0.3±0.03	

Mating Size / Unit : (mm)

Product No.	No. of Contacts	A	B	C	G	H	I
PF040-O110B-C15	110	52.00	47.00	43.60	57.12	59.92	55.6