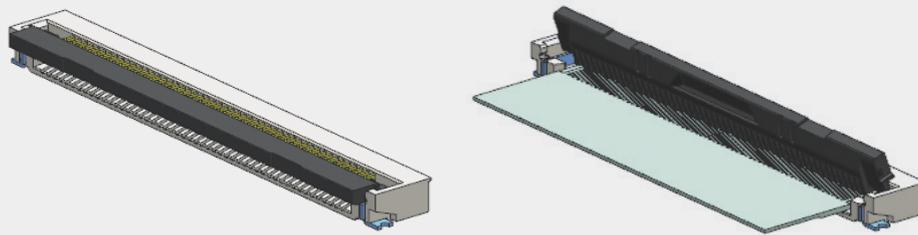


FPC/FFC Connectors (Mobile)

Narrow Type

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



- ▶ 0.50mm Pitch, 2.1mm Height, narrow and compact design
- ▶ Easy to Insert FPC and operate Actuator Front-lock system
- ▶ Applicable for 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
PF050-L30B-C21	0.50	30	5.00	2.10	19.88	-
PF050-L40B-C21	0.50	40	5.00	2.10	24.88	-
PF050-L60B-C21	0.50	60	5.00	2.10	34.88	-

Rated Current	Contact Resistance	Withstanding voltage	Temperature Range
0.5A Max.	50mΩ Max.	AC 250V	-35°C ~ 85°C

FPC/FFC Connectors (Mobile)

Narrow Type

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

Product Specification

Ratings	Rated current	0.5A Max. / contact	Operating temperature range	-35°C to +85°C	Storage temperature range	+15°C to +35 °C
	Rated voltage	50V AC, DC	Operating humidity range	80% 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.

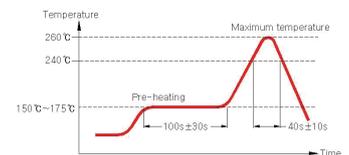
Applicable FPC Specification T=0.30±0.03mm

Items	Specifications	Conditions
1. Contact resistance	50mΩ Max. / contact	Closed circuit Current : 1mA. Open circuit voltage : 20mV
2. Insulation resistance	500MΩ Min.	Test voltage : 500V D.C.
3. Withstanding voltage	No flashover or dielectric breakdown	AC 250V for 1minute
4. Durability	No damage or mechanical defect Contact resistance : 50mΩ Max. / contact	Number of cycles : 20 cycles.
5. Vibration	No damage or mechanical defect No interruption over 1μ sec. No FPC drop out Contact resistance : 50mΩ Max. / contact	Amplitude: 1.5mm Test current: DC 100mA Frequency: 10-55-10Hz/Min Duration : XYZ axis 2h each (6h in total)
6. Shock	No damage or mechanical defect No interruption over 1μ sec. No FPC drop out	Acceleration : 490m/s ² (50G) Half sine wave: (Duration : 11ms) XYZ axis 3times per each direction Test current: DC 100mA
7. Humidity	No damage or mechanical defect Contact resistance : 50mΩ Max. / contact Insulation Resistance : 100MΩ Min.	Temperature : 40°C±2°C Humidity : 90% ~ 95% Duration : 96hr
8. Temperature cycle	No damage or mechanical defect Contact resistance : 50mΩ Max. / contact Insulation Resistance : 100MΩ Min.	Temperature : 25~65~25~65~25~-10~25°C Humidity : 90% ~ 95% 5 cycles

9. Solder heat resistance

Visual inspection : Connector shall meet the design and dimensional requirements of each drawings.

Reflow : Refer to the recommended reflow condition.



Materials / Finish

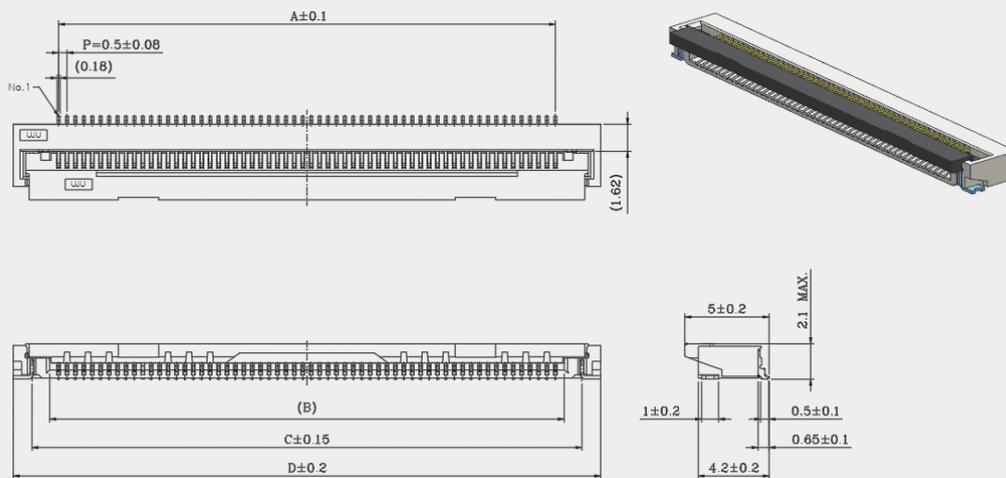
Part	Materials	Finish	UL Regulation
Base Insulation	LCP	Natural	UL94V-0
Actuator	PA	Black	UL94V-0
Contact Terminal	Phosphor Bronze	Au over Nickel	-
Fitting Nail	Phosphor Bronze	Sn over Nickel	-

FPC/FFC Connectors (Mobile)

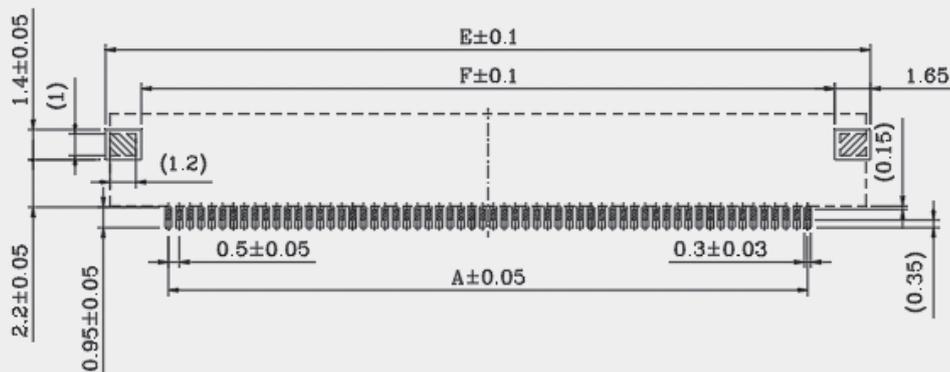
Narrow Type

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

Product Drawing



Recommended PCB, Metal Mask Layout



Mating Size / Unit : (mm)

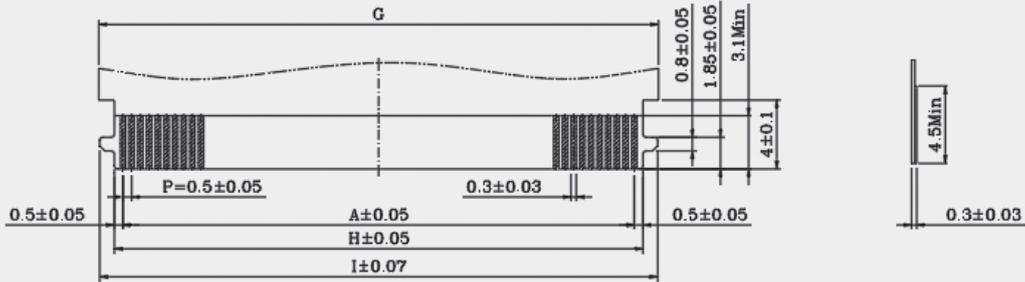
Product No.	No. of Contacts	A	B	C	D	E	F
PF050-L30B-C21	30	14.50	15.55	17.66	19.88	20.30	17.00
PF050-L40B-C21	40	19.50	20.55	22.66	24.88	25.30	22.00
PF050-L60B-C21	60	29.50	30.55	32.66	34.88	35.30	32.00

FPC/FFC Connectors (Mobile)

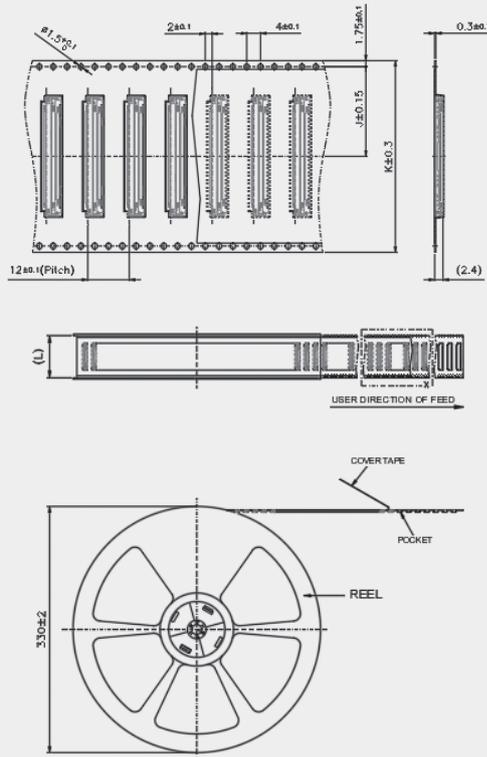
Narrow Type

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

Recommended FPC Dimensions



Packing Drawing



Mating Size / Unit : (mm)

Product No.	No. of Contacts	A	G	H	I	J	K	L
PF050-L30B-C21	30	14.50	17.30	15.50	17.20	14.20	32.00	33.40
PF050-L40B-C21	40	19.50	22.30	20.50	22.20	20.20	44.00	45.40
PF050-L60B-C21	60	29.50	32.30	30.50	32.20	20.20	44.00	45.40