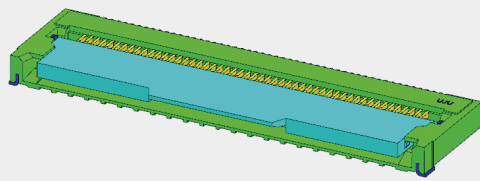
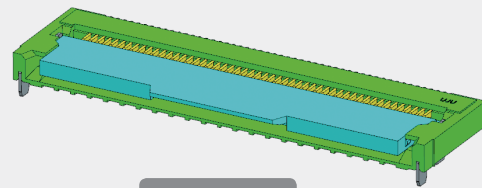


FPC/FFC Connectors (Display)

EROS
Applications | Mobile device, Display, PC


SMD type



DIP type

- ▶ Space-saving design
- ▶ Two SMT Type (SMD , DIP)
- ▶ Reliable 2-point Signal contact design
- ▶ Applicable for FPC/FFC thickness is $0.32\pm 0.03\text{mm}$

Code & Specification

Mating Size / Unit : (mm)

Product Code	Pitch (mm)	No. of Contacts	Width (mm)	Height (mm)	Length	Remark
PF050-O51B-C20-C	0.50	51	8.40	2.20	30.40	SMD(C)
PF050-O68B-C20-B or C	0.50	68	8.40	2.20	38.90	SMD(C)/DIP(B)
PF050-O80B-C20-B or C	0.50	80	8.40	2.20	44.90	SMD(C)/DIP(B)
PF050-O96B-C20-B	0.50	96	8.40	2.20	52.90	DIP(B)

Rated Current	Contact Resistance	Withstanding Voltage	Temperature Range
0.5 A Max.	30mΩ (Max.)	AC 250V	-45°C ~ 85°C

FPC/FFC Connectors (Display)



Applications | Mobile device, Display, PC

Product Specification

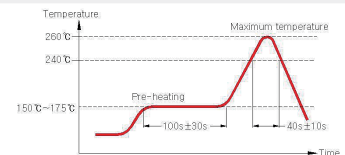
Ratings	Rated current	0.5A Max.	Operating temperature range	-45°C to +85°C 1	Storage temperature range	15°C to 35°C (With packing)
	Rated voltage	50V r.m.s	Operating humidity range	85%RH 2	Storage humidity range	65%RH

1) Including terminal temperature rise.

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

Applicable FPC/FFC Specification T=0.32±0.03mm, Gold Plated

Items	Specifications	Conditions
1. Contact resistance	30mΩ Max. / contact	Closed circuit Current : 500μA Open circuit voltage : 20mV Max.
2. Insulation resistance	100MΩ Min.	Test voltage : 100V D.C.
3. Withstanding voltage	No flashover or dielectric breakdown	AC 250V for 1minute
4. Actuator Open Force	0.0075kgf × N Min. (N= Pins)	Actuator open test shall be done with film inserted.
5. Withdrawal Force (Horizontal direction)	0.025kgf × N Min. (N= Pins)	An applicable FFC(FPC) shall be pulled from a connector at a speed of 25mm/min and measured extraction force.
6. Vibration	No damage or mechanical defect Contact resistance : 50mΩ Max. / contact	Number of cycles : 20 cycles.
7. Vibration	No damage or mechanical defect No interruption over 1μ sec. Contact resistance : 50mΩ Max. / contact	Amplitude : 1.5mm Test current : DC 100mA Frequency : 10~55~10Hz Duration : X,Y,Z axis each 2 hours.
8. Shock resistance	No damage or mechanical defect No interruption over 1μ sec.	Peak acceleration : 490m/s ² Half sine wave : (Duration : 11ms) Direction : 3direction (X,Y,Z) Number : 3times per each direction
9. 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
10. Temperature cycle	No damage or mechanical defect Contact resistance : 50mΩ Max. / contact Insulation Resistance : 100MΩ Min.	- 40±3(°C) : 30 minutes → +85±2(°C) : 30 minutes, 96 cycles
11. Solder heat resistance	Visual inspection : Connector shall meet the design and dimensional requirements of each drawings.	Reflow condition. (Refer to Reflow)



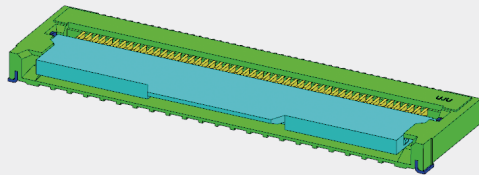
Materials / Finish

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

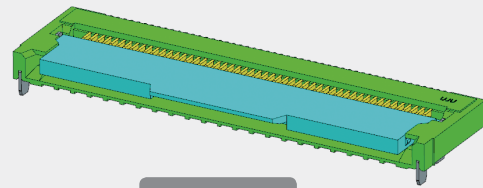
FPC/FFC Connectors (Display)

EROS
Applications | Mobile device, Display, PC

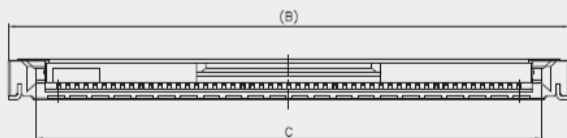
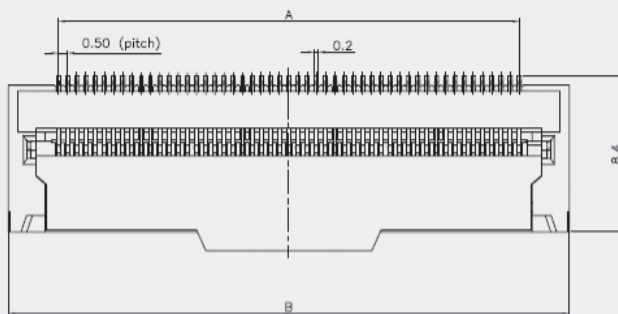
Product Drawing



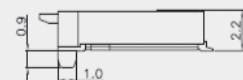
SMD type



DIP type



SMD type



DIP type

Mating Size / Unit : (mm)

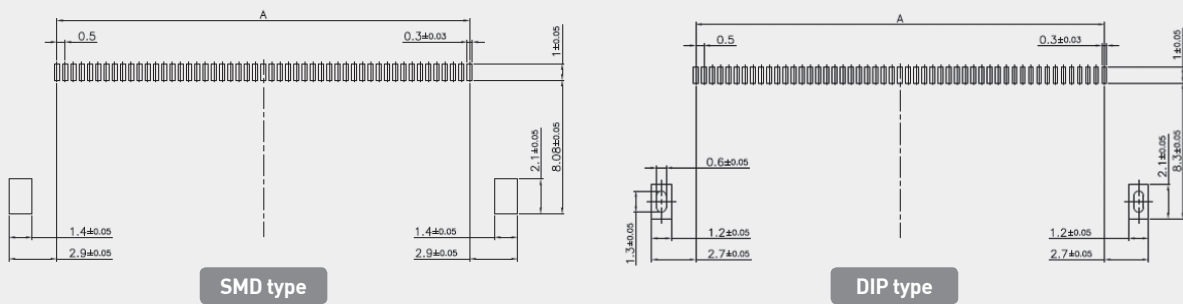
Product No.	No. of Contacts	A	B	C
PF050-O51B-C20-C	51	25.00	30.40	27.40
PF050-O68B-C20-B or C	68	35.00	38.90	35.90
PF050-O80B-C20-B or C	80	39.50	44.90	41.90
PF050-O96B-C20-B	96	47.50	52.90	49.90

FPC/FFC Connectors (Display)

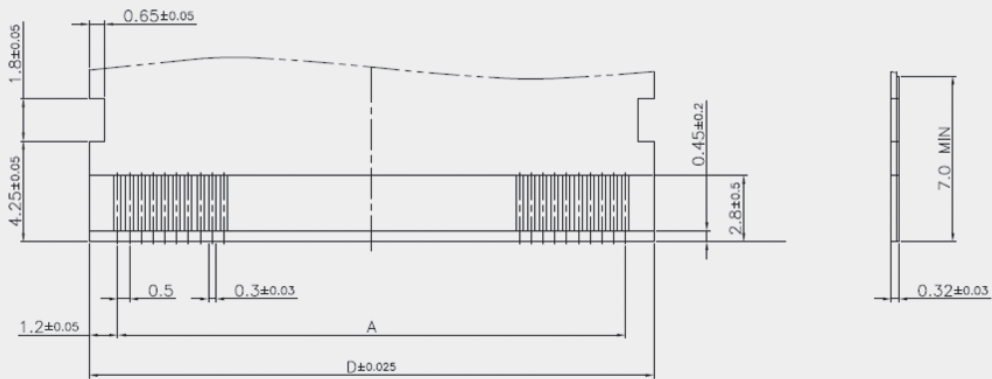


Applications | Mobile device, Display, PC

Recommended PCB , Metal Mask Layout



Recommended FFC/FPC Dimensions



Mating Size / Unit : (mm)

Product No.	No. of Contacts	A	B	C	D
PF050-O51B-C20-C	51 SMD	25.00	30.40	27.40	27.375
PF050-O68B-C20-B or C	68 SMD DIP	33.50	38.90	35.90	35.875
PF050-O80B-C20-B or C	80 SMD DIP	39.50	44.90	41.90	41.875
PF050-O96B-C20-B	96 DIP	47.5.	52.90	49.90	49.875