

# GF106 Series

## PCB-to-FFC/FPC Connector



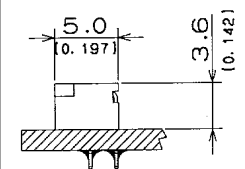
### General

- The GF106 Series connector is a socket connector with 1.0mm pitch designed for PCB-to-FPC/FFC applications with direct insertion of 0.3mm-thick FPC(Flexible Printed Circuitry) and FFC(Flexible Flat Cable) into connector.
- This connector also feature a single-side contact structure, preventing malfunction and damage of equipment when FPC/FFC is inserted in reverse.
- The connector is appropriate for inner mounting in a variety of electronic instruments, such of electronic instruments, such as VTR, audio systems, printers, telephones and OA equipment.

### Features

- Conduct Indicating Structure Addition  
In order to avoid reverse FPC/FFC contact side insertion the insulation the insulator is made visible through an open-edge structure to the conductor side.
- Easy PCB Installation  
The terminal of the DIP part is designed with a pitch of 1.0mm × 2.0mm and is treated to prevent connector damage during soldering through the adoption of a forming structure.
- Easy Insertion  
Because of the lengthened distance from FPC/FFC inlet to contact location this connector design permits easy insertion of even multi-circuit cable
- Low Profile for High Density  
This is a small connector of low profile appropriate for high-density installation with height 3.6mm and width 5.0mm.
- Single-Side Contact Structure  
This connector designed is a single-side contact structure to prevent equipment maloperation when FPC/FFC is inserted in reverse.

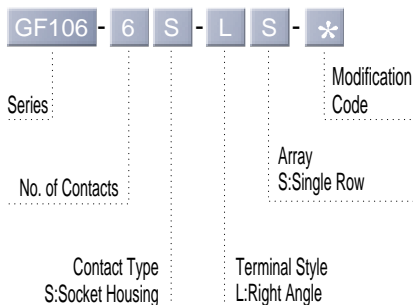
### Mating With



### Materials & Finishes

Parts	Materials / Finishes	
Insulator	Engineering Plastic	UL94V-0
Socket Contact	Copper Alloy	Tin Plating

### Ordering Information



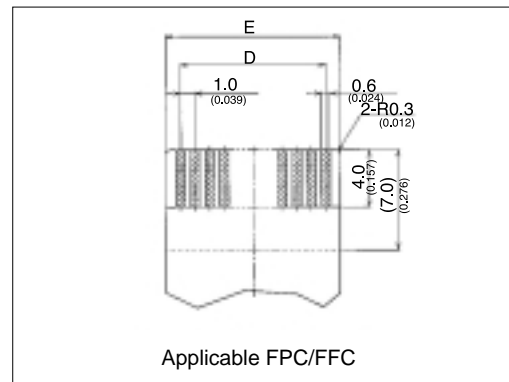
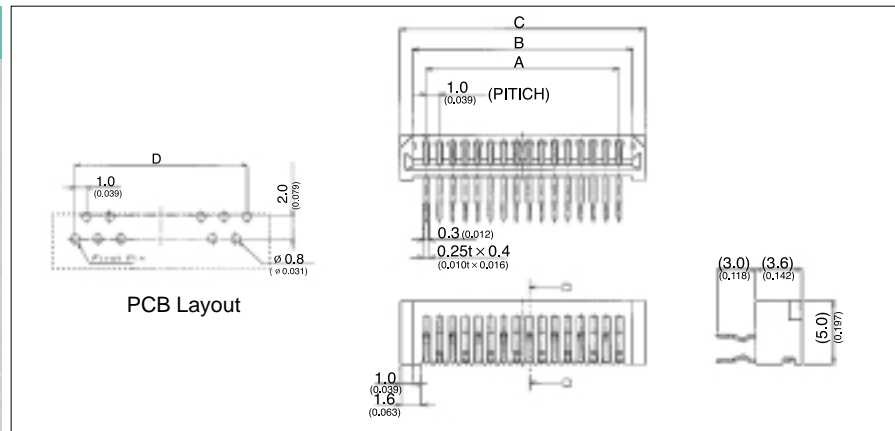
### Specifications

No. of Contacts	4~32
Contact Spacing	1.0mm(0.039")
Current Rating	0.5Amps
Voltage Rating	AC, DC 125V
Dielectric Withstanding Voltage	AC 500Vr.m.s(for one minute)
Insulation Resistance	100 M Ω
Contact Resistance	20 m Ω
Operating Temp.	-40 ℃ ~ +85 ℃
Applicable FPC/FFC	t=0.3 ± 0.05mm
Applicable PCB	

Angle Socket (Top Contact Type)



Angle Socket



PCB-to-FFC/FPC

No. of Pin	Part Number	A $\pm 0.2$	B $\pm 0.2$	C $\pm 0.3$	D $\pm 0.1$	E $\pm 0.1$
4	GF106 - 4S - LS	3.0 (0.118)	5.1 (0.201)	7.0 (0.276)	3.0 (0.118)	5.0 (0.197)
5	GF106 - 5S - LS	4.0 (0.157)	6.1 (0.240)	8.0 (0.315)	4.0 (0.157)	6.0 (0.236)
6	GF106 - 6S - LS	5.0 (0.197)	7.1 (0.280)	9.0 (0.354)	5.0 (0.197)	7.0 (0.276)
7	GF106 - 7S - LS	6.0 (0.236)	8.1 (0.319)	10.0 (0.394)	6.0 (0.236)	8.0 (0.315)
8	GF106 - 8S - LS	7.0 (0.276)	9.1 (0.358)	11.0 (0.433)	7.0 (0.276)	9.0 (0.354)
9	GF106 - 9S - LS	8.0 (0.315)	10.1 (0.398)	12.0 (0.472)	8.0 (0.315)	10.0 (0.394)
10	GF106 - 10S - LS	9.0 (0.354)	11.1 (0.437)	13.0 (0.512)	9.0 (0.354)	11.0 (0.433)
11	GF106 - 11S - LS	10.0 (0.394)	12.1 (0.476)	14.0 (0.551)	10.0 (0.394)	12.0 (0.472)
12	GF106 - 12S - LS	11.0 (0.433)	13.1 (0.516)	15.0 (0.591)	11.0 (0.433)	13.0 (0.512)
13	GF106 - 13S - LS	12.0 (0.472)	14.1 (0.555)	16.0 (0.630)	12.0 (0.472)	14.0 (0.551)
14	GF106 - 14S - LS	13.0 (0.512)	15.1 (0.594)	17.0 (0.669)	13.0 (0.512)	15.0 (0.591)
15	GF106 - 15S - LS	14.0 (0.551)	16.1 (0.634)	18.0 (0.709)	14.0 (0.551)	16.0 (0.630)
16	GF106 - 16S - LS	15.0 (0.591)	17.1 (0.673)	19.0 (0.748)	15.0 (0.591)	17.0 (0.669)
17	GF106 - 17S - LS	16.0 (0.630)	18.1 (0.713)	20.0 (0.787)	16.0 (0.630)	18.0 (0.709)
18	GF106 - 18S - LS	17.0 (0.669)	19.1 (0.752)	21.0 (0.827)	17.0 (0.669)	19.0 (0.748)
19	GF106 - 19S - LS	18.0 (0.709)	20.1 (0.791)	22.0 (0.866)	18.0 (0.709)	20.0 (0.787)
20	GF106 - 20S - LS	19.0 (0.748)	21.1 (0.831)	23.0 (0.906)	19.0 (0.748)	21.0 (0.827)
21	GF106 - 21S - LS	20.0 (0.787)	22.1 (0.870)	24.0 (0.945)	20.0 (0.787)	22.0 (0.866)
22	GF106 - 22S - LS	21.0 (0.827)	23.1 (0.909)	25.0 (0.984)	21.0 (0.827)	23.0 (0.906)
23	GF106 - 23S - LS	22.0 (0.866)	24.1 (0.949)	26.0 (1.024)	22.0 (0.866)	24.0 (0.945)
24	GF106 - 24S - LS	23.0 (0.906)	25.1 (0.988)	27.0 (1.063)	23.0 (0.906)	25.0 (0.984)
25	GF106 - 25S - LS	24.0 (0.945)	26.1 (1.028)	28.0 (1.102)	24.0 (0.945)	26.0 (1.024)
26	GF106 - 26S - LS	25.0 (0.984)	27.1 (1.067)	29.0 (1.142)	25.0 (0.984)	27.0 (1.063)
27	GF106 - 27S - LS	26.0 (1.024)	28.1 (1.106)	30.0 (1.181)	26.0 (1.024)	28.0 (1.102)
28	GF106 - 28S - LS	27.0 (1.063)	29.1 (1.146)	31.0 (1.220)	27.0 (1.063)	29.0 (1.142)
29	GF106 - 29S - LS	28.0 (1.102)	30.1 (1.185)	32.0 (1.260)	28.0 (1.102)	30.0 (1.181)
30	GF106 - 30S - LS	29.0 (1.142)	31.1 (1.224)	33.0 (1.299)	29.0 (1.142)	31.0 (1.220)
31	GF106 - 31S - LS	30.0 (1.181)	32.1 (1.264)	34.0 (1.339)	30.0 (1.181)	32.0 (1.260)
32	GF106 - 32S - LS	31.0 (1.220)	33.1 (1.303)	35.0 (1.378)	31.0 (1.220)	33.0 (1.299)