

GF120 Series

PCB-to-FFC/FPC Connector



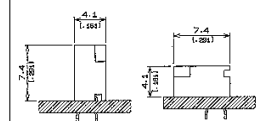
General

- GF120 Series connector, with 1.25mm pitch, is socket connector designed for PCB-to-FPC/FFC applications through direct insertion of 0.3mm-thick FPC (flexible printed circuitry) and FFC (flexible flat cable) into the connector.
- This connector also features a single-side contact structure, to prevent equipment maloperation and damage 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

- Conductor Indicating Structure Addition
To avoid reverse FPC/FFC contact side insertion, the conductor is made visible through an open-edge structure to the conductor side.
- Easy PCB Installation
The DIP part terminal is designed with a pitch of 1.25mm × 2.5mm, and connector damage is prevented during soldering through adoption of a forming structure.
- Straight and Angle Types
There are two connector type, a straight type and an angle type. The straight type is designed for vertical PCB-to-FPC/FFC connection, while the angle type is for horizontal insertion.
- Easy Insertion
Because of the lengthened distance from FPC/FFC inlet to contact location, the connector 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 7.4mm and with 4.1mm for the straight type, and height 4.1mm and with 7.4mm for the angle type.
- Single-Side Contact Structure
The connector design 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
Contact	Copper Alloy	Tin Plating

Ordering Information

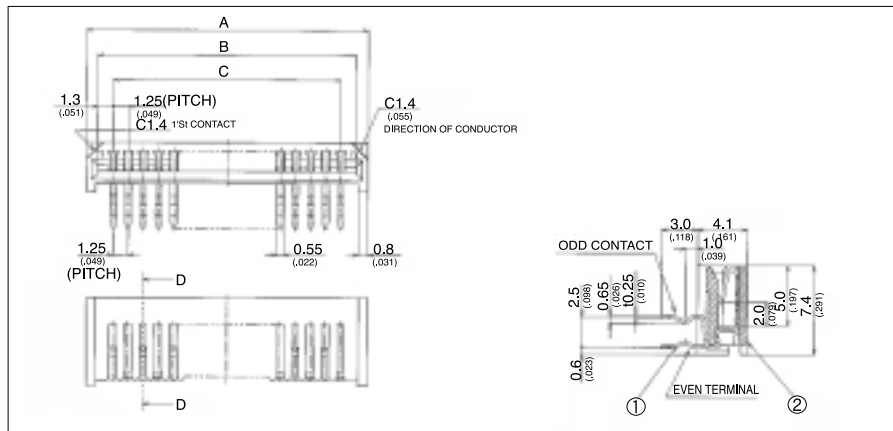
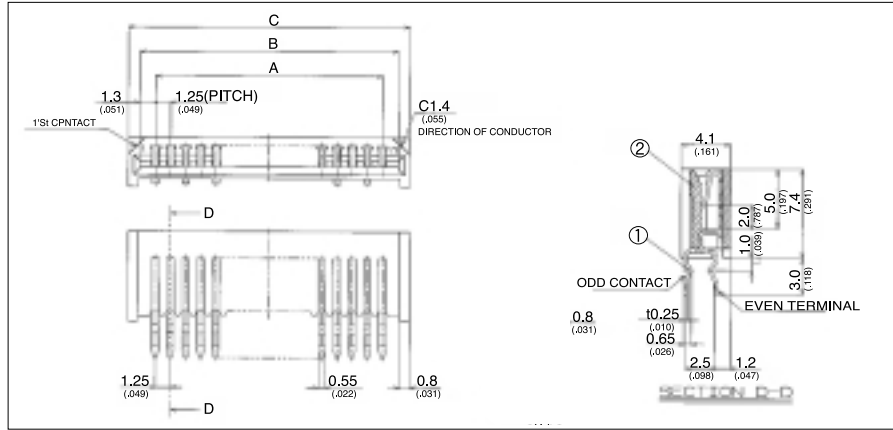
GF120	- 16	S	- T	S	- *
Series	No. of Contacts	Contact Type S:Socket Housing	Contact Arrangement S:Single Row	Terminal Style T: Straight L: Right Angle	Modification Code

Specifications

No. of Contacts	4~40
Contact Spacing	1.25mm(.049")
Current Rating	1Amps
Voltage Rating	AC, DC 200V
Dielectric Withstanding Voltage	AC 500Vr.m.s(for one minute)
Insulation Resistance	100 M Ω
Contact Resistance	20 m Ω
Operating Temp.	-40 °C ~ +85 °C
Applicable FPC/FFC	t=0.3 ± 0.05
Applicable PCB	t=0.8~1.6mm

Straight & Angle Socket

PCB-to-FFC/FPC



No. of Pin	Part Number		A ±0.3	B ±0.1	C ±0.25
	Straight	Angle			
4	GF120 - 4S - TS	GF120 - 4S - LS	8.25 (0.325)	6.35 (0.250)	3.75 (0.148)
5	GF120 - 5S - TS	GF120 - 5S - LS	9.50 (0.374)	7.60 (0.299)	5.00 (0.197)
6	GF120 - 6S - TS	GF120 - 6S - LS	10.75 (0.423)	8.85 (0.348)	6.25 (0.246)
7	GF120 - 7S - TS	GF120 - 7S - LS	12.00 (0.472)	10.10 (0.398)	7.50 (0.295)
8	GF120 - 8S - TS	GF120 - 8S - LS	13.25 (0.522)	11.35 (0.448)	8.75 (0.344)
9	GF120 - 9S - TS	GF120 - 9S - LS	14.50 (0.571)	12.60 (0.496)	10.00 (0.394)
10	GF120 - 10S - TS	GF120 - 10S - LS	15.75 (0.620)	13.85 (0.545)	11.25 (0.443)
11	GF120 - 11S - TS	GF120 - 11S - LS	17.00 (0.669)	15.10 (0.594)	12.50 (0.492)
12	GF120 - 12S - TS	GF120 - 12S - LS	18.25 (0.719)	16.35 (0.644)	13.75 (0.541)
13	GF120 - 13S - TS	GF120 - 13S - LS	19.50 (0.768)	17.60 (0.693)	15.00 (0.591)
14	GF120 - 14S - TS	GF120 - 14S - LS	20.75 (0.817)	18.85 (0.742)	16.25 (0.640)
15	GF120 - 15S - TS	GF120 - 15S - LS	22.00 (0.866)	20.10 (0.791)	17.50 (0.689)
16	GF120 - 16S - TS	GF120 - 16S - LS	23.25 (0.915)	21.35 (0.841)	18.75 (0.738)
17	GF120 - 17S - TS	GF120 - 17S - LS	24.50 (0.965)	22.60 (0.890)	20.00 (0.787)
18	GF120 - 18S - TS	GF120 - 18S - LS	25.75 (1.014)	23.85 (0.939)	21.25 (0.837)
19	GF120 - 19S - TS	GF120 - 19S - LS	27.00 (1.063)	25.10 (0.988)	22.50 (0.886)
20	GF120 - 20S - TS	GF120 - 20S - LS	28.25 (1.112)	26.35 (1.037)	23.75 (0.935)
21	GF120 - 21S - TS	GF120 - 21S - LS	29.50 (1.161)	27.60 (1.086)	25.00 (0.984)
22	GF120 - 22S - TS	GF120 - 22S - LS	30.75 (1.211)	28.85 (1.136)	26.25 (1.033)
23	GF120 - 23S - TS	GF120 - 23S - LS	32.00 (1.260)	30.10 (1.185)	27.50 (1.083)
24	GF120 - 24S - TS	GF120 - 24S - LS	33.25 (1.309)	31.35 (1.234)	28.75 (1.132)
25	GF120 - 25S - TS	GF120 - 25S - LS	34.50 (1.358)	32.60 (1.283)	30.00 (1.181)
26	GF120 - 26S - TS	GF120 - 26S - LS	35.75 (1.407)	33.85 (1.333)	31.25 (1.230)
27	GF120 - 27S - TS	GF120 - 27S - LS	37.00 (1.457)	35.10 (1.382)	32.50 (1.280)
28	GF120 - 28S - TS	GF120 - 28S - LS	38.25 (1.506)	36.35 (1.431)	33.75 (1.329)
29	GF120 - 29S - TS	GF120 - 29S - LS	39.50 (1.555)	37.60 (1.480)	35.00 (1.378)
30	GF120 - 30S - TS	GF120 - 30S - LS	40.75 (1.604)	38.85 (1.530)	36.25 (1.427)
31	GF120 - 31S - TS	GF120 - 31S - LS	42.00 (1.654)	40.10 (1.579)	37.50 (1.476)
32	GF120 - 32S - TS	GF120 - 32S - LS	43.25 (1.703)	41.35 (1.628)	38.75 (1.526)
33	GF120 - 33S - TS	GF120 - 33S - LS	44.50 (1.752)	42.60 (1.677)	40.00 (1.575)
34	GF120 - 34S - TS	GF120 - 34S - LS	45.50 (1.801)	43.85 (1.726)	41.25 (1.624)
35	GF120 - 35S - TS	GF120 - 35S - LS	47.00 (1.750)	45.10 (1.776)	42.50 (1.673)
36	GF120 - 36S - TS	GF120 - 36S - LS	48.25 (1.900)	46.35 (1.825)	43.75 (1.722)
37	GF120 - 37S - TS	GF120 - 37S - LS	49.50 (1.949)	47.60 (1.874)	45.00 (1.772)
38	GF120 - 38S - TS	GF120 - 38S - LS	50.75 (1.998)	48.85 (1.923)	46.25 (1.821)
39	GF120 - 39S - TS	GF120 - 39S - LS	52.00 (2.047)	50.10 (1.972)	47.50 (1.870)
40	GF120 - 40S - TS	GF120 - 40S - LS	53.25 (2.296)	51.35 (2.022)	48.75 (1.919)