GF120 Series
PCB-to-FFC/FPC Connector

General
- The GF120 Series connector, with a 1.25mm pitch, is a socket connector designed for PCB-to-FFC/FPC 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 malfunction and damage when FPC/FPC is inserted in reverse.
- The connector is appropriate for inner mounting in a variety of electronic instruments, such as VTR, audio systems, printers, telephones and OA equipment.

Features
- Conductor Indicating Structure Addition
  - To avoid reverse FPC/FCC 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 types, a straight type and an angle type.
  - The angle type is designed for vertical PCB-to-FPC/FPC connection, while the straight 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 width 4.1mm for the straight type, and height 4.1mm and width 7.4mm for the angle type.

Materials & Finishes

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Specifications

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<th>Applicable PCB</th>
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<tr>
<td>4-40</td>
<td>1.25mm (.049&quot;)</td>
<td>1Amps</td>
<td>AC, DC 200V</td>
<td>600Vrms (s for one minute)</td>
<td>100 MΩ</td>
<td>-40°C to +85°C</td>
<td>t=0.3mm .05</td>
<td>t=0.8-1.5mm</td>
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Ordering Information

<table>
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<th>Series</th>
<th>Modification Code</th>
<th>Contact Spacing</th>
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<td>GF120</td>
<td>S</td>
<td>1.25mm (.049&quot;)</td>
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Mating With

PCB-to-FFC/FPC Connector

GF120 Series
Straight & Angle Socket

Straight

- GF120 - 4S - TS
- GF120 - 5S - TS
- GF120 - 6S - TS
- GF120 - 7S - TS
- GF120 - 8S - TS
- GF120 - 9S - TS
- GF120 - 10S - TS
- GF120 - 11S - TS
- GF120 - 12S - TS
- GF120 - 13S - TS
- GF120 - 14S - TS
- GF120 - 15S - TS
- GF120 - 16S - TS
- GF120 - 17S - TS
- GF120 - 18S - TS
- GF120 - 19S - TS
- GF120 - 20S - TS
- GF120 - 21S - TS
- GF120 - 22S - TS
- GF120 - 23S - TS
- GF120 - 24S - TS
- GF120 - 25S - TS
- GF120 - 26S - TS
- GF120 - 27S - TS
- GF120 - 28S - TS
- GF120 - 29S - TS
- GF120 - 30S - TS
- GF120 - 31S - TS
- GF120 - 32S - TS
- GF120 - 33S - TS
- GF120 - 34S - TS
- GF120 - 35S - TS
- GF120 - 36S - TS
- GF120 - 37S - TS
- GF120 - 38S - TS
- GF120 - 39S - TS
- GF120 - 40S - TS

Angle

- GF120 - 4S - LS
- GF120 - 5S - LS
- GF120 - 6S - LS
- GF120 - 7S - LS
- GF120 - 8S - LS
- GF120 - 9S - LS
- GF120 - 10S - LS
- GF120 - 11S - LS
- GF120 - 12S - LS
- GF120 - 13S - LS
- GF120 - 14S - LS
- GF120 - 15S - LS
- GF120 - 16S - LS
- GF120 - 17S - LS
- GF120 - 18S - LS
- GF120 - 19S - LS
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- Straight and Angle Types
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  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 malfunction when FPC/FFC is inserted in reverse.

Materials & Finishes
- Insulator: Copper Alloy
- Electrical Plastic: UL94V-0
- Contact: Tin Plating
- Mating With: Nickel Plating

Specifications
- No. of Contacts: 4~40
- Contact Spacing: 1.25mm (0.49")
- Current Rating: 1Amps
- Voltage Rating: AC, DC 200V
- Dielectric Withstanding Voltage: AC 600V (1min)
- Insulation Resistance: 100 MΩ
- Contact Resistance: 20 mΩ
- Operating Temp.: -40°C to +85°C
- Applicable FPC/FFC: t=0.3mm to 0.05mm
- Applicable PCB: t=0.8mm to 1.6mm

Ordering Information
- Series: GF120
- Modification Code: S, T, S Single Row
- No. of Contacts: 4~40
- Terminal Style: Straight, L Right Angle
- Contact Type: Straight & Angle Socket

PCB-to-FFC/FPC