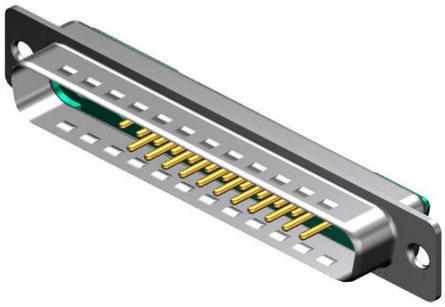
molex



**Part Number :** 1731070110
**Product Description :** FCT Mixed Layout D-Sub Connector, Male, Straight, Solder Cup, Gold Plating, Tin-plated Shell with Dimples, 25 Circuits Max, 22 Signal Contacts Loaded, Green Insulator
**Series Number :** 173107
**Status :** Active
**Product Category :** D-Sub Connectors
**Engineering Part Number :** FM25W3P-K120

## Documents and Resources

### Drawings

1731070110_sd.pdf

### 3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

## Product Environment Compliance

### Compliance

| | |
|---|---|
| GADSL/IMDS | Not Relevant |
| China RoHS | per SJ/T 11365-2006 |
| EU ELV | Not Relevant |
| Low-Halogen Status | Not Reviewed per IEC 61249-2-21 |
| REACH SVHC | Contains Lead per D(2025)4165-DC (25 June 2025) SCIP:cd61712d-e585-4fb3-989a-9132cd501724 |
| EU RoHS | Compliant with Exemption 6(c) per EU 2015/863 |

Compliance Statements

- EU RoHS
- REACH SVHC

- Low-Halogen

Industry Documents
- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

Substances of Interest
- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

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## Part Details

### General

| | |
|---|---|
| Status | Active |
| Category | D-Sub Connectors |
| Series | 173107 |
| Description | FCT Mixed Layout D-Sub Connector, Male, Straight, Solder Cup, Gold Plating, Tin-plated Shell with Dimples, 25 Circuits Max, 22 Signal Contacts Loaded, Green Insulator |
| IP Rating | IP20 |
| Magnetic | Yes |
| Product Name | FCT Products |
| Type | Mixed Layout |
| UPC | 889056324878 |

### Electrical

| | |
|---|---|
| Current - Maximum per Contact | 7.5A |
| Shielded | Yes |

### Physical

| | |
|---|---|
| Circuits (Loaded) | 22 |
| Circuits (maximum) | 25 |
| Color - Resin | Green |

| | |
|---|---|
| Durability (mating cycles min) | 500 |
| Gender | Male |
| Material - Contact | Copper Alloy |
| Material - Resin | PBT |
| Material - Shell | Steel |
| Net Weight | 12.500/g |
| Number of Rows | 2 |
| Orientation | Straight |
| Packaging Type | Carton |
| Panel Mount | Front or Rear |
| Panel Mount Method | Flange |
| PCB Retention | No |
| PCB Thickness - Recommended | 1.60mm |
| PC Tail Length | 7.40mm |
| Plating - Contact | Gold over Nickel |
| Plating min - Mating | 0.800µm |
| Plating - Shell | Tin |
| Polarized to Mating Part | Yes |
| Polarized to PCB | No |
| Ports | 1 |
| Temperature Range - Operating | -55° to +130°C |
| Termination Style | Solder Cup |
| Waterproof / Dustproof | No |
| Waterproof / Dustproof Type | IP20 |
| Wire Size (AWG) | 20 |

## Mates With / Use With

### Mates with Part(s)

| Description | Part Number |
|---|---|
| Mates With | FCT Mixed Layout D-Sub, Size 4, 25W3, Socket |

### Use with Part(s)

| Description | Part Number |
|---|---|

| | |
|---|---|
| Use With | FCT Coaxial, High Power, High Voltage, or Pneumatic Contacts |