



**Part Number :** [1731070069](#)

**Product Description :** FCT Mixed Layout D-Sub Connector, Male, Straight, Solder Cup, Gold Plating, Tin-plated Shell with Dimples, 24 Circuits Max, 17 Signal Contacts Loaded, Green Insulator

**Series Number :** 173107

**Status :** Active

**Product Category :** D-Sub Connectors

**Engineering Part Number :** FM24W7P-K120



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## Documents and Resources

### Drawings

[1731070069\\_sd.pdf](#)

### 3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

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## Product Environment Compliance

### Compliance

|                    |                                                                                              |
|--------------------|----------------------------------------------------------------------------------------------|
| GADSL/IMDS         | Not Relevant                                                                                 |
| China RoHS         | per SJ/T 11365-2006                                                                          |
| EU ELV             | Not Relevant                                                                                 |
| Low-Halogen Status | Not Low-Halogen per IEC 61249-2-21                                                           |
| REACH SVHC         | Contains Lead per D(2025)7771-DC (04 Feb 2026)<br>SCIP:64419a0e-5ff8-4dc2-b0ec-3fffedaa08315 |
| 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, 24 Circuits Max, 17 Signal Contacts Loaded, Green Insulator |
| IP Rating    | IP20                                                                                                                                                                   |
| Magnetic     | Yes                                                                                                                                                                    |
| Product Name | FCT Products                                                                                                                                                           |
| Type         | Mixed Layout                                                                                                                                                           |
| UPC          | 889056318938                                                                                                                                                           |

### Electrical

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

### Physical

|                    |    |
|--------------------|----|
| Circuits (Loaded)  | 17 |
| Circuits (maximum) | 24 |

|                                |                                  |
|--------------------------------|----------------------------------|
| Color - Resin                  | Green                            |
| Durability (mating cycles min) | 500                              |
| Gender                         | Male                             |
| Material - Contact             | Copper Alloy                     |
| Material - Resin               | Polybutylene Terephthalate (PBT) |
| Material - Shell               | Steel                            |
| Net Weight                     | 12.900/g                         |
| Number of Rows                 | 2                                |
| Orientation                    | Straight                         |
| Packaging Type                 | Carton                           |
| Panel Mount                    | Rear                             |
| Panel Mount Method             | Flange                           |
| PCB Locator                    | No                               |
| PCB Retention                  | No                               |
| Pitch - Mating Interface       | 2.84mm                           |
| Pitch - Termination Interface  | 2.84mm                           |
| Plating - Contact              | Gold over Nickel                 |
| Plating min - Mating           | 0.800µm                          |
| Plating - Shell                | Tin                              |
| Polarized to Mating Part       | Yes                              |
| Ports                          | 1                                |
| Shell Size                     | 5                                |
| Temperature Range - Operating  | -55° to +130°C                   |
| Termination Style              | Solder Cup                       |
| Waterproof / Dustproof         | No                               |
| Waterproof / Dustproof Type    | IP20                             |
| Wire Size (AWG)                | 20                               |

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## Mates With / Use With

### Mates with Part(s)

| Description | Part Number                                  |
|-------------|----------------------------------------------|
| Mates With  | FCT Mixed Layout D-Sub, Size 5, 24W7, Socket |

**Use with Part(s)**

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