



**Part Number :** [1731070919](#)

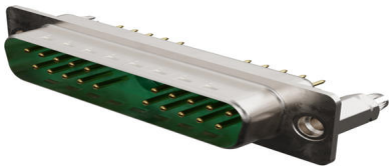
**Product Description :** FCT Mixed Layout D-Sub Connector, Male, Straight, PCB Through Hole, Gold Plating, Tin-plated Shell with Dimples, 8.10mm Snap-in Bolt, 21 Circuits Max, 20 Signal Contacts Loaded, Green Insulator

**Series Number :** 173107

**Status :** Active

**Product Category :** D-Sub Connectors

**Engineering Part Number :** FM21W1P1-0904



## Documents and Resources

### Drawings

[1731070919 sd.pdf](#)

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

[Symbol and Footprint \(Multi-Format\)](#)

## 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)                                                         |
| 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, PCB Through Hole, Gold Plating, Tin-plated Shell with Dimples, 8.10mm Snap-in Bolt, 21 Circuits Max, 20 Signal Contacts Loaded, Green Insulator |
| IP Rating    | IP20                                                                                                                                                                                              |
| Magnetic     | Yes                                                                                                                                                                                               |
| Product Name | FCT Products                                                                                                                                                                                      |
| Type         | Mixed Layout                                                                                                                                                                                      |
| UPC          | 191130103966                                                                                                                                                                                      |

### Electrical

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

### Physical

|                    |    |
|--------------------|----|
| Circuits (Loaded)  | 20 |
| Circuits (maximum) | 21 |

|                                |                  |
|--------------------------------|------------------|
| Color - Resin                  | Green            |
| Durability (mating cycles min) | 500              |
| Gender                         | Male             |
| Material - Contact             | Copper Alloy     |
| Material - Resin               | PBT              |
| Material - Shell               | Steel            |
| Net Weight                     | 11.600/g         |
| Number of Rows                 | 2                |
| Orientation                    | Straight         |
| Packaging Type                 | Carton           |
| Panel Mount                    | Rear             |
| Panel Mount Method             | Thread-In        |
| PCB Locator                    | Yes              |
| PCB Retention                  | Yes              |
| PCB Thickness - Recommended    | 1.60mm           |
| PC Tail Length                 | 10.30mm          |
| 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              |
| Polarized to PCB               | Yes              |
| Ports                          | 1                |
| Temperature Range - Operating  | -55° to +130°C   |
| Termination Style              | Through Hole     |
| Waterproof / Dustproof         | No               |
| Waterproof / Dustproof Type    | IP20             |

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## Mates With / Use With

### Mates with Part(s)

| Description | Part Number                                  |
|-------------|----------------------------------------------|
| Mates With  | FCT Mixed Layout D-Sub, Size 3, 21W1, Socket |

**Use with Part(s)**

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