



Part Number : [1731070059](#)
Product Description : FCT Mixed Layout D-Sub Connector, Male, Straight, Solder Cup, Gold Plating, Tin-plated Shell with Dimples, 7 Circuits Max, 5 Signal Contacts Loaded, Green Insulator
Series Number : 173107
Status : Active
Product Category : D-Sub Connectors
Engineering Part Number : FM7W2P-K120



Documents & Resources

Drawings

[1731070059_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; pyrochlore, antimony lead yellow 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

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, 7 Circuits Max, 5 Signal Contacts Loaded, Green Insulator
IP Rating	IP20
Magnetic	Yes
Product Name	FCT Products
Type	Mixed Layout
UPC	889056316989

Electrical

Current - Maximum per Contact	7.5A
Shielded	Yes

Physical

Circuits (Loaded)	5
Circuits (maximum)	7
Color - Resin	Green

Durability (mating cycles min)	500
Gender	Male
Material - Contact	Copper Alloy
Material - Resin	PBT
Material - Shell	Steel
Net Weight	6.000/g
Number of Rows	2
Orientation	Straight
Packaging Type	Carton
Panel Mount	Rear
Panel Mount Method	Flange
PCB Locator	No
PCB Retention	None
PC Tail Length	7.40mm
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	No
Ports	1
Temperature Range - Operating	-55° to +130°C
Termination Style	Solder
Waterproof / Dustproof	No
Waterproof / Dustproof Type	IP20
Wire Size (AWG)	20

Mates With / Use With

Mates with Part(s)

Description	Part Number
FCT Mixed Layout D-Sub Connector, Female, Straight, Solder Cup, Gold Plating, Tin-plated Shell, 7 Circuits Max, 5 Signal Contacts	<u>1731070060</u>

Loaded, Green Insulator	
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Use with Part(s)

Description	Part Number
FCT Metal Backshell for D-Sub Connector, Shell Size 2, Straight Cable Outlet, Large Inner Chamber, with Rubber Bushing and #4-40 Locking Screws	<u>1727040098</u>
FCT Metal Backshell for D-Sub Connector, Shell Size 2, Straight Large Diameter Cable Outlet, Large Inner Chamber, with Rubber Bushing and #4-40 Locking Screws	<u>1731110060</u>
FCT Metal Backshell for D-Sub Connector, Shell Size 2, 45° Angle Cable Outlet, Large Inner Chamber, with Rubber Bushing and #4-40 Locking Screws	<u>1727040097</u>
FCT Metal Backshell for D-Sub Connector, Shell Size 2, 45° Angle Large Diameter Cable Outlet, Large Inner Chamber, with Rubber Bushing and #4-40 Locking Screws	<u>1731110061</u>
FCT Metal Backshell for D-Sub Connector, Shell Size 2, Straight Cable Outlet, Extra Large Inner Chamber, with Double Cable Clamps and #4-40 Locking Screws	<u>1731110185</u>
FCT Metal Backshell for D-Sub Connector, Shell Size 2, Straight Cable Outlet, Large Inner Chamber, with Rubber Bushing and #4-40 Knurled Thumb Screws	<u>1731110082</u>
FCT Metal Backshell for D-Sub Connector, Shell Size 2, 45° Angle Cable Outlet, Large Inner Chamber, with Rubber Bushing, with #4-40 Locking Screws	<u>1731110264</u>
FCT Metal Backshell for D-Sub Connector, Shell Size 2, Straight Large Diameter Cable Outlet, Extra	<u>1731110184</u>

Large Inner Chamber, with Double Cable Clamps and #4-40 Locking Screws	
FCT High Power Contact, Male, Straight, Solder Cup, 0.80µm Gold Mating Plating, 0.20µm Gold Termination Plating, 20.0A, 16-12 AWG	<u>1727040147</u>
FCT High Voltage Contact, Male, Straight, Solder Cup, 1.30µm Gold Mating Plating, with Plastic Retention Clip, 2.0A, 20 AWG or smaller	<u>1727040134</u>
FCT High Power Contact, Male, Straight, Crimp, 0.80µm Gold Mating Plating, 0.20µm Gold Termination Plating, 10.0A, 20-16 AWG	<u>1727040142</u>
FCT High Power Contact, Male, Straight, Solder Cup, 0.80µm Gold Mating Plating, 0.20µm Gold Termination Plating, 10.0A, 20-16 AWG	<u>1727040146</u>
FCT High Power Contact, Male, Straight, Crimp, 0.80µm Gold Mating Plating, 0.20µm Gold Termination Plating, 20.0A, 14-12 AWG,	<u>1727040143</u>
FCT High Power Contact, Male, Straight, Solder Cup, 0.80µm Gold Mating Plating, 0.20µm Gold Termination Plating, 40.0A, 18-2 AWG	<u>1727040148</u>
FCT Pneumatic Contact, Male, Right-Angle, Silver Plating, 2.00mm Tube Inner Diameter, with Plastic Retention Clip and Knurl	<u>1731120141</u>
FCT High Power Contact, Male, Straight, Crimp, 0.80µm Gold Mating Plating, 0.20µm Gold Termination Plating, 40.0A, 10-8 AWG	<u>1727040145</u>
FCT High Power Contact, Male,	<u>1727040149</u>

Straight, Crimp, 0.80µm Gold Mating Plating, 0.20µm Gold Termination Plating, 30.0A, 12-10 AWG	
FCT Coaxial Contact, Male, Straight, Crimp, 50 Ohms, 1.30µm Gold Plating, for RG-316U Double Braided Cable	<u>1731120052</u>
FCT High Voltage Contact, Male, Straight, Solder Cup, 1.30µm Gold Mating Plating, with Copper Alloy Retention Clip, 2.0A, 20 AWG or smaller	<u>1731121250</u>