

2.2-5 Female Low PIM Connector Solder Attachment for TFT-5G-402



TC-402-225F-LP



Times Microwave Systems Connector Specification

Configuration

- 2.2-5 Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: TFT-5G-402
- Low PIM Design

Features

- Operating Frequency of 6 GHz Max.
- Good VSWR of 1.3:1
- PIM levels better than -160 dBc
- Silver Plated Beryllium Copper Contact
- 200 µin contact plating

Applications

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications
- Distributed Antenna Systems (DAS)

Description

2.2-5 Female Low PIM Connector Solder/Solder Attachment for TFT-5G-402 Cable, part number TC-402-225F-LP, from Fairview Microwave is in-stock and ships same day. This 2.2-5 female connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1. The 2.2-5 female connector also has low passive intermodulation (PIM) of -160 dBc.

Fairview's 2.2-5 female connector TC-402-225F-LP datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.3:1	
Insertion Loss			0.24	dB
Passive Intermodulation			-160	dBc
Operating Voltage (DC)			1,500	Vdc
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

Electrical Specification Notes:
Insertion Loss is $0.1 \cdot \sqrt{f(\text{GHz})}$

Mechanical Specifications

Size

Length	1.1 in [27.94 mm]
Width	0.665 in [16.89 mm]
Height	0.665 in [16.89 mm]
Weight	0.03 lbs [13.61 g]

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TC-402-225F-LP

Mating Cycles	100 Cycles
Mating Torque	26 in-lbs [[2.94 Nm]]
Cable Retention Force	33 lbs [14.97 kg]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Silver 200 µin
Insulation	PTFE	
Outer Conductor	Beryllium Copper	Silver 100 µin
Body	Brass	Silver 100 µin

Environmental Specifications

Temperature	
Operating Range	-40 to +125 deg C
Shock	MIL-STD 202G, Meth. 213, Cond. I
Vibration	MIL-STD 202G, Meth. 204, Cond. B
Thermal Shock	MIL-STD 202G, Meth. 107, Cond. B

Environmental Specification Notes:
Climatic Class: IEC 60068 55/155/56

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

2.2-5 Female Low PIM Connector Solder Attachment for TFT-5G-402 from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2.2-5 Female Low PIM Connector Solder Attachment for TFT-5G-402 TC-402-225F-LP](#)

URL: <https://www.fairviewmicrowave.com/2.2-5-female-tft-402-connector-tc-402-225f-lp-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

