

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



### TC-402-NF-LP



## Times Microwave Systems Connector Specification

### Configuration

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

### Features

- Operating Frequency of 6 GHz Max.
- Excellent VSWR of 1.25:1
- PIM levels better than -160 dBc
- Silver Plated Phosphor Bronze Contact
- 5 µm contact plating

### Applications

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

### Description

Type N Female Connector Solder/Solder Attachment for TFT-5G-402 Cable, part number TC-402-NF-LP, from Fairview Microwave is in-stock and ships same day. This type N female connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.25:1. The type N female connector also has low passive intermodulation (PIM) of -160 dBc.

Fairview's type N female connector TC-402-NF-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			1.25:1	
Passive Intermodulation			-160	dBc
Operating Voltage (DC)			1,000	Vdc
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Inner Conductor DC Resistance			1	mOhms
Outer Conductor DC Resistance			1	mOhms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

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

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#### Mechanical Specifications

Size	
Length	1.712 in [43.48 mm]
Width	0.5 in [12.7 mm]
Height	0.5 in [12.7 mm]
Weight	0.03 lbs [13.61 g]
Mating Cycles	500 Cycles
Mating Torque	10 in-lbs [[1.13 Nm]]
Cable Retention Force	101 lbs [45.81 kg]

#### Material Specifications

Description	Material	Plating
Contact	Phosphor Bronze	Silver 5 µm
Insulation	PTFE	
Outer Conductor	Brass	Tri-Metal 3 µm
Body	Brass	Tri-Metal 3 µm

#### Environmental Specifications

Temperature	
Operating Range	-55 to +125 deg C
Humidity	MIL-STD 202, Meth. 106
Shock	MIL-STD 202, Meth. 213, Cond. I
Vibration	MIL-STD 202, Meth. 204, Cond. D

Environmental Specification Notes:  
Corrosion: MIL-STD 202, Meth. 101, Cond. B

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

#### Plotted and Other Data

Notes:

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N 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: [N Female Low PIM Connector Solder Attachment for TFT-5G-402 TC-402-NF-LP](https://www.fairviewmicrowave.com/product/rf-connectors/n-female-tft-402-connector-tc-402-nf-lp.html)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/n-female-tft-402-connector-tc-402-nf-lp.html>

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TC-402-NF-LP CAD Drawing

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