

Precision N Female (Jack) to TNC Female (Jack) Adapter, 1.15 VSWR



SM4165

Configuration

- N Female Connector 1
- TNC Female Connector 2
- 50 Ohms Impedance
- Precision Design
- Straight Body Geometry

Features

- VSWR of 1.15:1 max up to 18 GHz
- Contact plating according to MIL-G-45204
- Gold over Nickel Plated Beryllium Copper Contact

Applications

- Enables Between Series Connections
- General Purpose Test
- Precision Test & Measurement

Description

Type N female to TNC female adapter part number SM4165 from Fairview Microwave is in-stock and ships same day. This Fairview type N to TNC adapter has a female to female gender configuration in a precision design. SM4165 type N female to TNC female adapter operates to 18 GHz. The Fairview Microwave RF adapter provides excellent VSWR of 1.15:1 maximum.

RF adapters can be used to enable connections between two connector types that would otherwise not mate. Certain RF adapter configurations can also be used to protect connectors on expensive equipment where the number of connect and disconnect cycles is high. An RF, microwave, or millimeter wave adapter is connected to the equipment and the commonly changed connection is made with the adapter which can be easily replaced when it wears out after high usage; such adapters are referred to as connector savers. Fairview Microwave also offers bulkhead, panel mount, hermetically sealed, reverse polarity, and isolated ground adapter varieties to serve all of your RF, microwave and millimeter wave needs.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
VSWR			1.15:1	

Electrical Specification Notes:
Values at 25°C, sea level.

Mechanical Specifications

Size

Length	1.89 in [48.01 mm]
Weight	0.10 lbs [44.68 g]

Description	Connector 1	Connector 2
Polarity	Standard	Standard
Mating Cycles, Min	500	500

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Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	N Female		TNC Female	
Contact	Beryllium Copper	Gold over Nickel MIL-G-45204	Beryllium Copper	Gold over Nickel MIL-G-45204
Insulation	PTFE		PTFE	
Outer Conductor	Passivated Stainless Steel	ASTM A380	Passivated Stainless Steel	ASTM A380

Environmental Specifications

Temperature

Operating Range

-55 to +100 °C

Vibration

MIL-STD 202, Method 204, Condition D (20 G's)

Salt Spray

MIL-STD 202, Method 101, Condition B, 5% salt solution

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

Plotted and Other Data

Precision N Female (Jack) to TNC Female (Jack) Adapter, 1.15 VSWR 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: [Precision N Female \(Jack\) to TNC Female \(Jack\) Adapter, 1.15 VSWR SM4165](#)

URL: <https://www.fairviewmicrowave.com/product/rf-adapters/precision-n-female-to-tnc-female-adapter-sm4165>

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SM4165 CAD Drawing
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