

Hermetically Sealed N Female (Jack) to N Female (Jack) Bulkhead Adapter, Nickel Plated Brass Body, 1.3 VSWR



SM4057

Configuration

- N Female Connector 1
- N Female Connector 2
- 75 Ohms Impedance
- Straight Body Geometry
- Bulkhead Mount Method

Features

- VSWR of 1.3:1 max up to 2 GHz
- Hermetically Sealed
- Type N interface meets MIL-STD-348A
- Contact plating according to QQ-S-365
- Gold Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Vacuum Test Environment
- Rack Mounted Equipment

Description

Hermetically sealed 75 ohm type N female to type N female bulkhead adapter part number SM4057 from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N adapter has a female to female gender configuration. SM4057 type N female to type N female adapter operates to 2 GHz. The Fairview Microwave RF adapter provides good VSWR of 1.3:1 maximum. Our RF type N to type N bulkhead adapter allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The Fairview Microwave hermetic type N to type N adapter prevents the leakage of gases, making it suitable for high pressure or vacuum applications or whenever an airtight seal is required.

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		2	GHz
Impedance		75		Ohms
VSWR			1.3:1	
Operating Voltage (AC)			1,000	Vrms
Dielectric Withstanding Voltage (AC)			2,500	Vrms
Insulation Resistance	5,000			MOhms

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

Mechanical Specifications

Size

Length	1.54 in [39.12 mm]
Width	0.88 in [22.23 mm]

Hermetically Sealed N Female (Jack) to N Female (Jack) Bulkhead Adapter, Nickel Plated Brass Body, 1.3 VSWR



SM4057

Height	0.00 in [0.00 mm]	
Weight	0.11 lbs [49.67 g]	
Description	Connector 1	Connector 2
Polarity	Standard	Standard
Interface Specification	MIL-STD-348A	MIL-STD-348A
Connector Option	Hermetically Sealed	Hermetically Sealed
Mating Cycles, Min	500	500

Mechanical Specification Notes:

The glass bead seal in the center of the adapter is sensitive to shock and axial pressure. If the adapter is subjected to shock and overtorquing of the coupling nut, the glass bead interseal will shatter easily. Jam nut torque not to exceed 15 inch pounds

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	N Female		N Female	
Contact	Beryllium Copper	Gold QQ-S-365	Beryllium Copper	Gold QQ-S-365
Insulation	PTFE		PTFE	
Outer Conductor	Brass	Nickel	Brass	Nickel
Body	Brass	Nickel	Brass	Nickel
Washer	Phosphor Bronze	Nickel		

Environmental Specifications

Temperature

Operating Range

Hermetic Seal

-40 to +120 °C

After seal, item withstands pressure diff of 1 atm, leak rate not to exceed 1x10⁻⁷ CC/sec of helium.

Hermetically Sealed N Female (Jack) to N Female (Jack) Bulkhead Adapter, Nickel Plated Brass Body, 1.3 VSWR



SM4057

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

Plotted and Other Data

Hermetically Sealed N Female (Jack) to N Female (Jack) Bulkhead Adapter, Nickel Plated Brass Body, 1.3 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: [Hermetically Sealed N Female \(Jack\) to N Female \(Jack\) Bulkhead Adapter, Nickel Plated Brass Body, 1.3 VSWR SM4057](#)

URL: <https://www.fairviewmicrowave.com/hermetically-sealed-75-ohm-n-female-n-female-bulkhead-adapter-sm4057-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.

SM4057 CAD Drawing

Hermetically Sealed N Female (Jack) to N Female (Jack) Bulkhead Adapter, Nickel Plated Brass Body, 1.3 VSWR

