

## 50 Ohm N Male to 75 Ohm N Female Adapter

50 ohm type N male to 75 ohm type N female adapter part number SM4020 from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N adapter has a male to female gender configuration. SM4020 type N male to type N female adapter operates to 2 GHz.

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	Min	Typ	Max	Units
Frequency Range	DC		2	GHz

### Mechanical Specifications

<b>Size</b>	
Length	1.44 in [36.58 mm]
Width	0.813 in [20.65 mm]
Weight	0.10538 lbs [47.8 g]

Description	Connector 1	Connector 2
Type	N Male	N Female
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	MIL-STD-348

#### Mechanical Specification Notes:

The 75 Ohm N type connector will not mate with 50 Ohm N type connector. There is no impedance transformation within this part, VSWR > 1.50:1. Not all F type connectors will mate with all F type connectors.

### Material Specifications

Description	Connector 1	Connector 2
Type	N Male	N Female
Contact Material	Brass	Beryllium Copper
Contact Plating	Silver	Silver
Contact Plating Spec.	QQ-S-365	QQ-S-365
Insulation Material	PTFE	PTFE
Outer Contact Material		Brass
Outer Contact Plating		Nickel
Outer Conductor Contact Spec.		QQ-N-290
Body Material	Brass	
Body Plating	Nickel	
Body Plating Spec.	QQ-N-290	



### Configuration:

- N Male Connector 1
- N Female Connector 2
- 50 Ohm, 75 Ohm
- Straight Body Geometry

### Features:

- Type N interface meets MIL-STD-348
- Contact plating according to QQ-S-365

### Applications:

- General Purpose Test

Fairview Microwave  
 1130 Junction Dr. #100  
 Allen, TX 75013  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

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

**Plotted and Other Data**

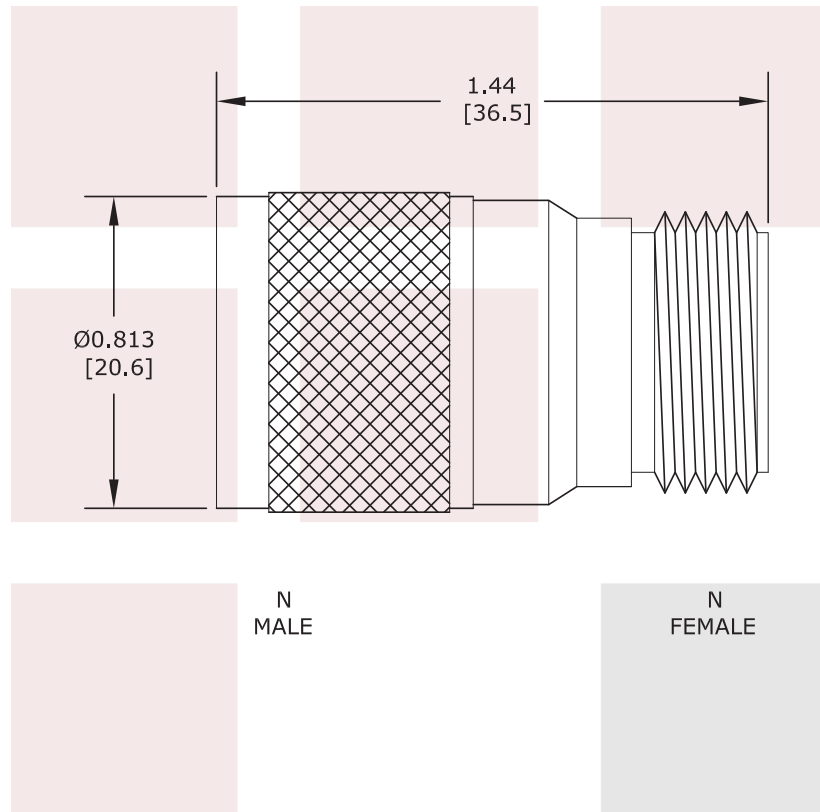
Notes:

50 Ohm N Male to 75 Ohm N Female Adapter 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 Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [50 Ohm N Male to 75 Ohm N Female Adapter SM4020](#)

URL: <https://www.fairviewmicrowave.com/50-ohm-n-male-75-ohm-n-female-adapter-sm4020-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.1
.XXX	±0.05

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

<b>FAIRVIEW MICROWAVE INC.</b> ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].			
TITLE 50 Ohm N Male to 75 Ohm N Female Adapter		DWG NO SM4020		CAGE CODE 3FKR5	
CAD FILE	111116	SHEET	SCALE	N/A	SIZE A 41742