

SMA Male to N Male Adapter

SMA male to type N male adapter part number SM4221 from Fairview Microwave is in-stock and ships same day. This Fairview SMA to type N adapter has a male to male gender configuration. SM4221 SMA male to type N male adapter operates to 18 GHz. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors. The Fairview Microwave RF adapter provides excellent VSWR of 1.25:1 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	Min	Typ	Max	Units
Frequency Range	DC		18	GHz
VSWR			1.25:1	
Operating Voltage (AC)			335	Vrms
DWV (AC)			1,000	Vrms

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

Mechanical Specifications

Size	
Length	1.27 in [32.26 mm]
Width	0.79 in [20.07 mm]
Weight	0.08378 lbs [38 g]

Description	Connector 1	Connector 2
Type	SMA Male	N Male
Polarity	Standard	Standard
Interface Specification	IEC 169-16	IEC 169-16
Mating Cycles	100	100
Hex Size	8 mm	



Configuration:

- SMA Male Connector 1
- N Male Connector 2
- 50 Ohms
- Straight Body Geometry

Features:

- VSWR of 1.25:1 max up to 18 GHz
- SMA interface meets IEC 169-16
- N interface meets IEC 169-16
- 0.3 μm minimum contact plating
- Gold Plated Beryllium Copper Contact

Applications:

- Enables Between Series Connections
- General Purpose Test

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Material Specifications

Description	Connector 1	Connector 2
Type	SMA Male	N Male
Contact Material	Beryllium Copper	Beryllium Copper
Contact Plating	Gold	Gold
Contact Plating Spec.	0.3 µm minimum	0.3 µm minimum
Insulation Material	PTFE	PTFE
Body Material	Brass	Brass
Body Plating	Tri-Metal	Tri-Metal
Coupling Nut Material	Brass	Brass
Coupling Nut Plating	Tri-Metal	Tri-Metal

Environmental Specifications

Temperature

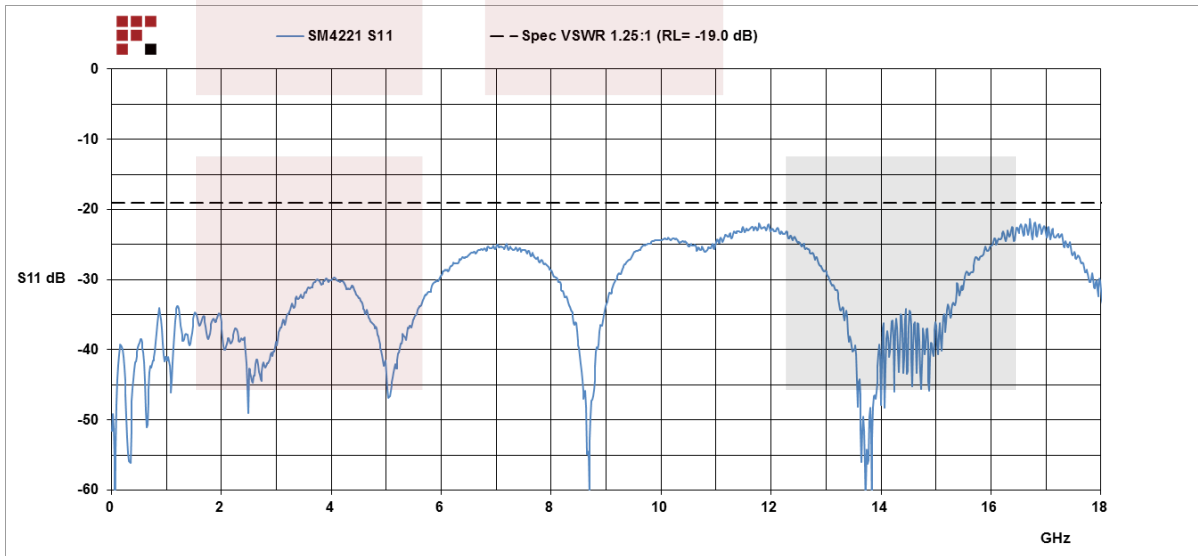
Operating Range -45 to +125 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data

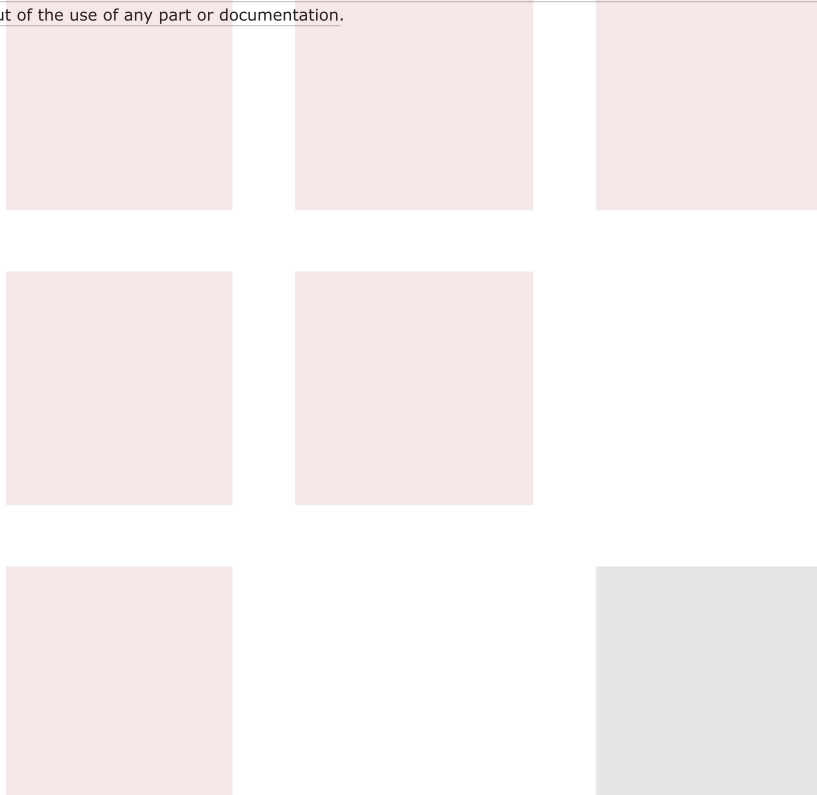


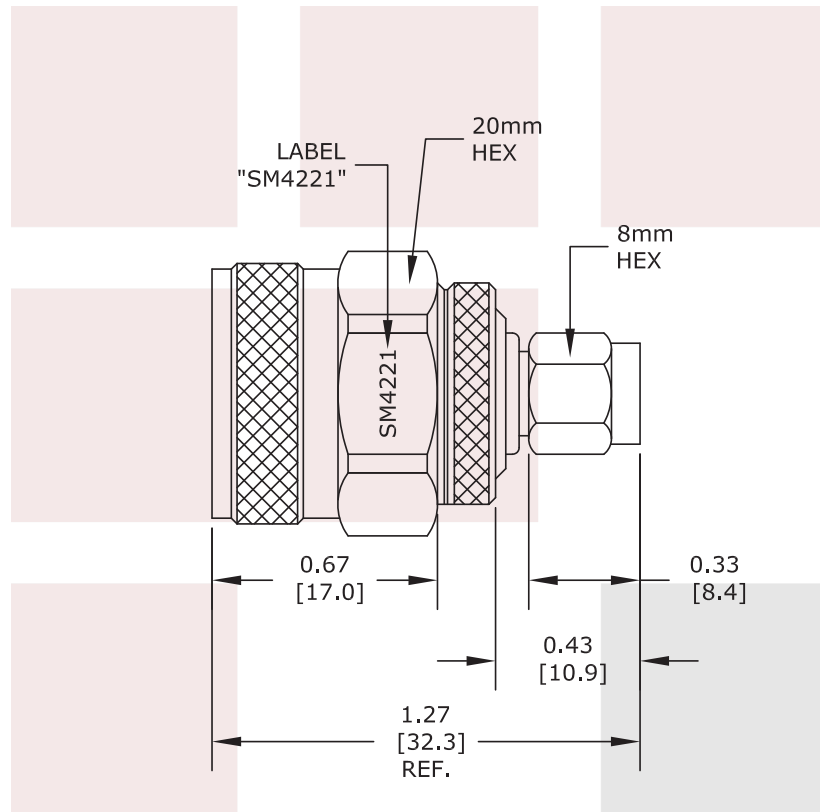
SMA Male to N Male Adapter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Male to N Male Adapter SM4221](#)

URL: <https://www.fairviewmicrowave.com/sma-male-n-male-adapter-sm4221-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.





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TITLE SMA Male to N Male Adapter		DWG NO SM4221		CAGE CODE 3FKR5	
CAD FILE	111915	SHEET	SCALE	N/A	SIZE A 150