

Low PIM 4.1/9.5 Mini DIN Female to N Female Adapter

Low PIM 4.1/9.5 Mini DIN female to type N female adapter part number SM8220 from Fairview Microwave is in-stock and ships same day. This Fairview 4.1/9.5 Mini DIN to type N adapter has a female to female gender configuration in a Low PIM design. SM8220 4.1/9.5 Mini DIN female to type N female adapter operates to 6 GHz. The Fairview Microwave RF adapter provides excellent VSWR of 1.25:1 maximum and passive intermodulation of -160 dBc 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		6	GHz
VSWR			1.25:1	
Passive Intermodulation (using 2x20W tones)			-160	dBc
Operating Voltage (AC)			1,000	Vrms
DWV (AC)			2,500	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 4	4 to 6			GHz
VSWR, Max	1.1:1	1.15:1	1.25:1			

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

Mechanical Specifications

Size	
Length	1.76 in [44.7 mm]
Weight	0.1285 lbs [58.29 g]

Description	Connector 1	Connector 2
Type	4.1/9.5 Mini DIN Female	N Female
Polarity	Standard	Standard
Mating Cycles	500	500



Configuration:

- 4.1/9.5 Mini DIN Female Connector 1
- N Female Connector 2
- 50 Ohms
- Low PIM Design
- Straight Body Geometry

Features:

- VSWR of 1.25:1 max up to 6 GHz
- PIM levels better than -160 dBc
- 5 μm minimum contact plating
- Silver Plated Beryllium Copper Contact

Applications:

- Enables Between Series Connections
- General Purpose Test

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Material Specifications

Description	Connector 1	Connector 2
Type	4.1/9.5 Mini DIN Female	N Female
Contact Material	Beryllium Copper	Beryllium Copper
Contact Plating	Silver	Silver
Contact Plating Spec.	5 µm minimum	5 µm minimum
Insulation Material	PTFE	PTFE
Outer Contact Material	Brass	Brass
Outer Contact Plating	Tri-Metal	Tri-Metal

Environmental Specifications

Temperature

Operating Range

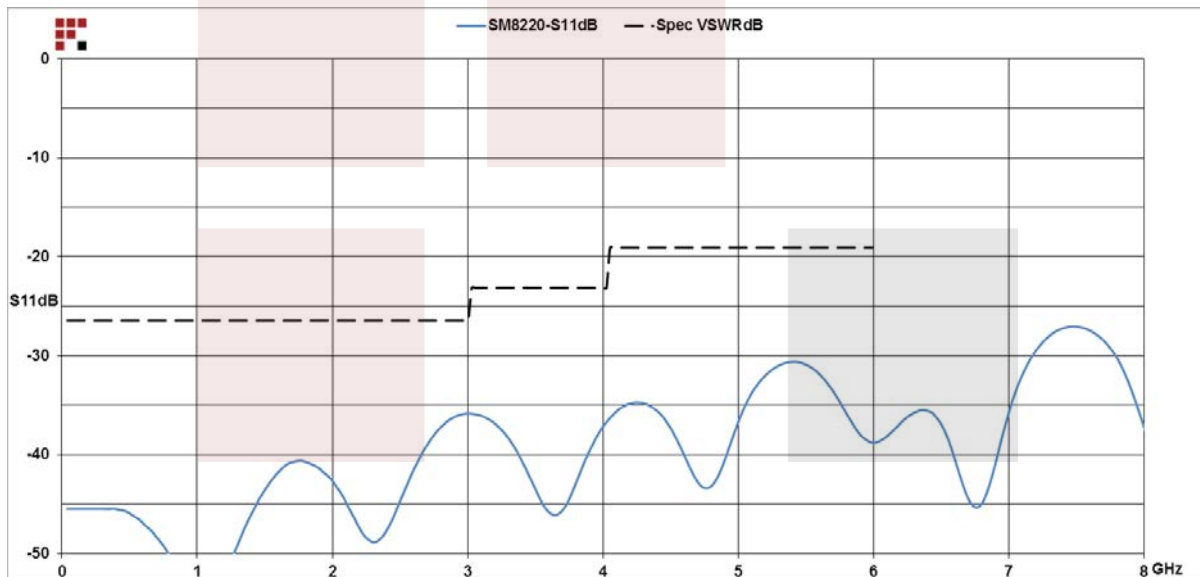
-55 to +120 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data



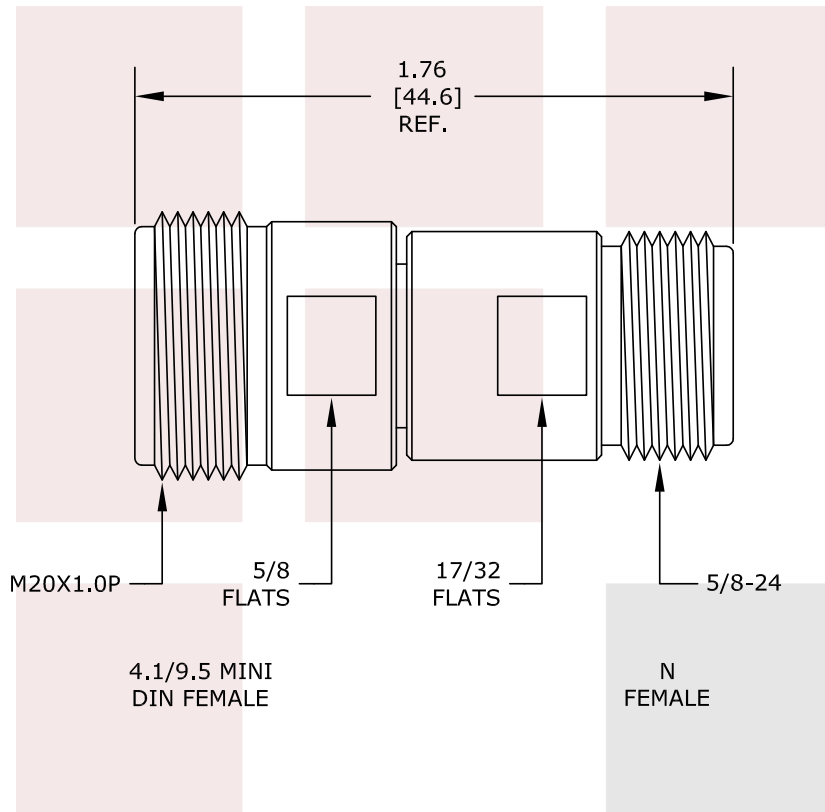
Low PIM 4.1/9.5 Mini DIN Female to N Female Adapter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Low PIM 4.1/9.5 Mini DIN Female to N Female Adapter SM8220](#)

URL: <https://www.fairviewmicrowave.com/low-pim-4.1-9.5-mini-din-female-n-female-adapter-sm8220-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.





FAIRVIEW MICROWAVE INC. 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 Low PIM 4.1/9.5 Mini DIN Female to N Female Adapter		DWG NO SM8220		CAGE CODE 3FKR5	
CAD FILE 111814		SHEET	SCALE N/A	SIZE A	150