

2.4mm Male (Plug) to N Male (Plug) Adapter, Passivated Stainless Steel Body, 1.15 VSWR

2.4mm male to type N male adapter part number SM3090 from Fairview Microwave is in-stock and ships same day. This Fairview 2.4mm to type N adapter has a male to male gender configuration and is built of durable stainless steel. SM3090 2.4mm male to type N male adapter operates to 18 GHz. The Fairview Microwave RF adapter provides excellent VSWR of 1.15:1 maximum. The 2.4mm connector mates mechanically with commercially available 1.85mm (V) connectors.

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			1.15:1	
Insertion Loss			0.212	dB

Electrical Specification Notes:
 Insertion Loss = $0.05 \cdot \sqrt{f(\text{GHz})}$
 Values at 25°C, sea level

Mechanical Specifications

Size
 Length 1.608 in [40.8 mm]
 Weight 0.098 lbs [44.45 g]

Description	Connector 1	Connector 2
Type	2.4mm Male	N Male
Polarity	Standard	Standard
Mating Cycles	500	500
Mating Torque	12 to 15 in-lbs [1.36 to 1.70 Nm]	8 to 10 in-lbs [0.90 to 1.13 Nm]



Configuration:

- 2.4mm Male Connector 1
- N Male Connector 2
- 50 Ohm
- 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

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Material Specifications

Description	Connector 1	Connector 2
Type	2.4mm Male	N Male
Contact Material	Beryllium Copper	Beryllium Copper
Contact Plating	Gold over Nickel	Gold over Nickel
Contact Plating Spec.	MIL-G-45204	MIL-G-45204
Insulation Material	Oxide-Noryl	Oxide-Noryl
Body Material	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Spec.	ASTM A380	ASTM A380
Coupling Nut Material	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Spec.	ASTM A380	ASTM A380

Environmental Specifications

Temperature

Operating Range

Vibration

Salt Spray

-55 to +100 deg C

MIL-STD 202, METHOD 204, TEST CONDITION D (20 G's)

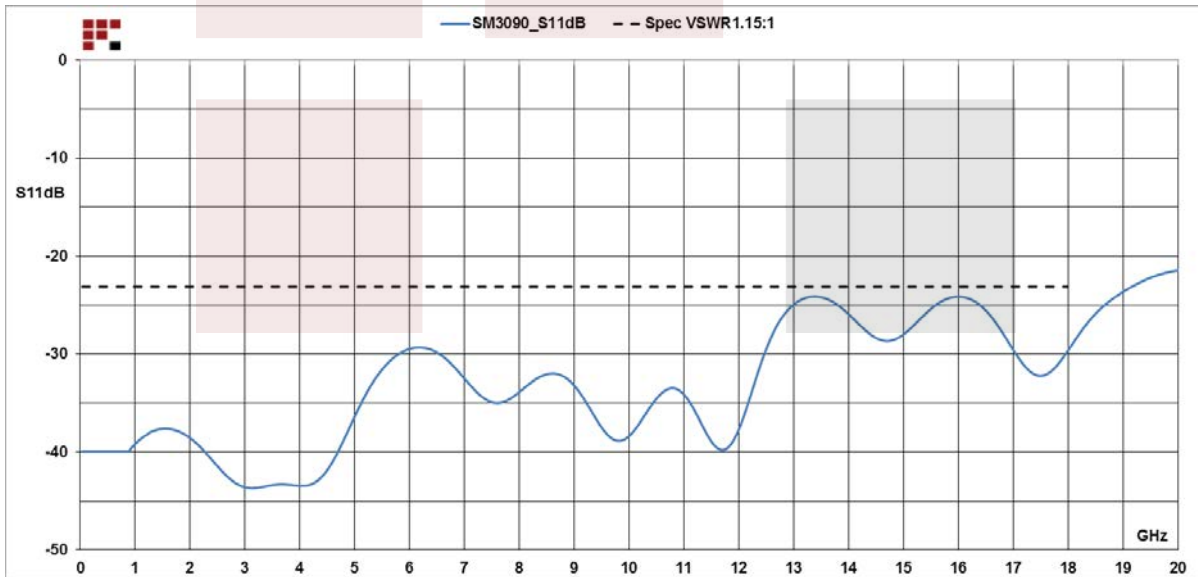
MIL-STD-202, METHOD 101, TEST CONDITION B 5% SALT SOLUTION

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

Plotted and Other Data

Notes:

Typical Performance Data



2.4mm Male (Plug) to N Male (Plug) Adapter, Passivated Stainless Steel Body, 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.

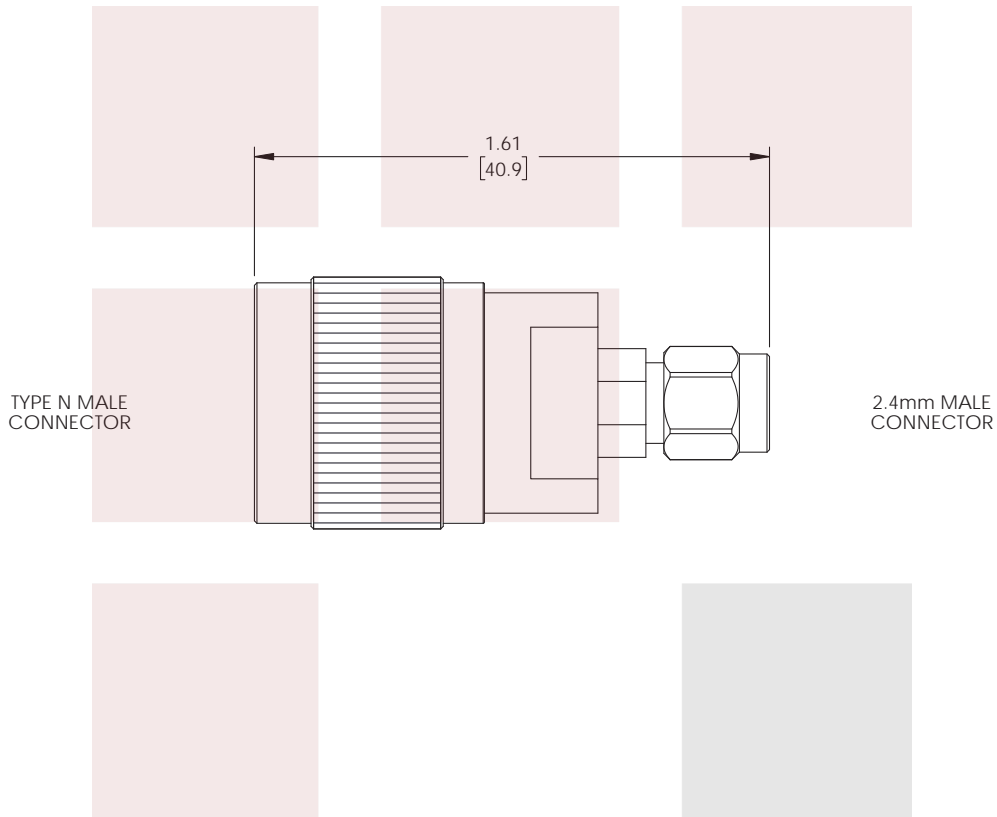
For additional information on this product, please click the following link: [2.4mm Male \(Plug\) to N Male \(Plug\) Adapter, Passivated Stainless Steel Body, 1.15 VSWR SM3090](#)

URL: <https://www.fairviewmicrowave.com/2.4mm-male-n-male-adapter-sm3090-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.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	INITIAL RELEASE	06/24/2021	SELLIS



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TITLE
2.4mm Male (Plug) to N Male (Plug) Adapter,
Passivated Stainless Steel Body, 1.15 VSWR

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
.X = ± 2 [5.08]	FRACTIONS ± 1/32	L ≤ 12 [305]	= +1 [25] / -0
.XX = ± 0.2 [5.1]	± 1/32	12 [305] < L ≤ 60 [1524]	= +2 [51] / -0
.XXX = ± 0.005 [0.13]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048]	= +4 [102] / -0
		120 [3048] < L ≤ 300 [7620]	= +6 [152] / -0
		300 [7620] < L	= +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	DFRISIELLO	SM3090	B

T-Rev.D