

RA 2.92mm Male to 2.92mm Female Adapter

RA 2.92mm male to 2.92mm female adapter part number SM3250 from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to 2.92mm adapter has a male to female gender configuration. SM3250 2.92mm male to 2.92mm female adapter operates to 40 GHz. The Fairview Microwave RF adapter provides good VSWR of 1.3:1 maximum. The 2.92mm connector mates mechanically with commercially available SMA and 3.5mm connectors. This right angle 2.92mm adapter allows for easier connections in tight spaces.

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		40	GHz
VSWR			1.3:1	
Insertion Loss			0.32	dB

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

Mechanical Specifications

Size	
Length	0.7 in [17.0 mm]
Width	0.312 in [7.92 mm]
Height	0.63 in [16 mm]
Weight	0.0165 lbs [7.48 g]

Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm Female
Polarity	Standard	Standard
Mating Cycles	500	500
Hex Size	5/16 in.	
Mating Torque	8 to 10 in-lbs [0.90 to 1.13 Nm]	



Configuration:

- 2.92mm Male Connector 1
- 2.92mm Female Connector 2
- 50 Ohm
- Right Angle Body Geometry

Features:

- VSWR of 1.3:1 max up to 40 GHz
- Contact plating according to MIL-G-45204
- Gold over Nickel Plated Beryllium Copper Contact

Applications:

- General Purpose Test

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Material Specifications

Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm Female
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
Outer Contact Material		Passivated Stainless Steel
Outer Conductor Contact Spec.		ASTM A380
Body Material	Passivated Stainless Steel	
Body Plating Spec.	ASTM A380	
Coupling Nut Material	Passivated Stainless Steel	
Coupling Nut Plating Spec.	ASTM A380	

Environmental Specifications

Temperature

Operating Range

-55 to +100 deg C

Vibration

MIL-STD 202, Method 204, Condition D (20 G's)

Salt Spray

MIL-STD 202, Method 101, Condition B, 5% salt solution

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

Plotted and Other Data

Notes:

RA 2.92mm Male to 2.92mm 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [RA 2.92mm Male to 2.92mm Female Adapter SM3250](#)

URL: <https://www.fairviewmicrowave.com/ra-2.92mm-male-2.92mm-female-adapter-sm3250-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.

REV. A

DESCRIPTION
PCR PE9644

DATE
5/14/2020

APPROVED
S.ELLIS

2.92mm MALE

5/16 HEX

.517
[13.13]

1/4-36 UNS-2A

2.92mm FEMALE

.470
[11.93]

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Fairview Microwave

an INFINITE brand

TITLE

RA 2.92mm Male to 2.92mm Female Adapter

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

TOLERANCES:

CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08] FRACTIONS ± 1/32

.XX = ±.02 [.51] ± 1/32

.XXX = ±.005 [.13] ANGLES ± 1°

L ≤ 12 [305] = +1 [25] / -0

12 [305] < L ≤ 60 [1524] = +2 [51] / -0

60 [1524] < L ≤ 120 [3048] = +4 [102] / -0

120 [3048] < L ≤ 300 [7620] = +6 [152] / -0

300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE A

CAGE CODE 3FKR5

DRAWN BY K.DANG

ITEM NO. SM3250

REV A

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

T-Rev.D