

50 Ohm SMA Male to 75 Ohm F Female Adapter

50 ohm SMA male to 75 ohm type F female adapter part number SM3821 from Fairview Microwave is in-stock and ships same day. This Fairview SMA to type F adapter has a male to female gender configuration. SM3821 SMA male to type F female adapter operates to 2 GHz. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) 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		2	GHz
Operating Voltage (AC)			500	Vrms
DWV (AC)			1,500	Vrms
Insulation Resistance	5,000			MOhms

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

Mechanical Specifications

Size		
Length		1.1 in [27.2 mm]
Width		0.375 in [9.53 mm]
Weight		0.0195 lbs [8.85 g]

Description	Connector 1	Connector 2
Type	SMA Male	F Female
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	MIL-C-39012
Hex Size	5/16 inch	

Mechanical Specification Notes:
Not all "F" type connectors will mate with all "F" type connectors



Configuration:

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

Features:

- SMA interface meets MIL-STD-348
- Type F interface meets MIL-C-39012
- Contact plating according to MIL-G-45204

Applications:

- Enables Between Series Connections
- General Purpose Test

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Material Specifications

Description	Connector 1	Connector 2
Type	SMA Male	F Female
Contact Material	Brass	Beryllium Copper
Contact Plating	Gold over Nickel	Gold over Nickel
Contact Plating Spec.	MIL-G-45204	MIL-G-45204
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	
Coupling Nut Material	Brass	
Coupling Nut Plating	Nickel	
Coupling Nut Plating Spec.	QQ-N-290	

Environmental Specifications
Temperature

Operating Range

-65 to +165 deg C

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

Plotted and Other Data

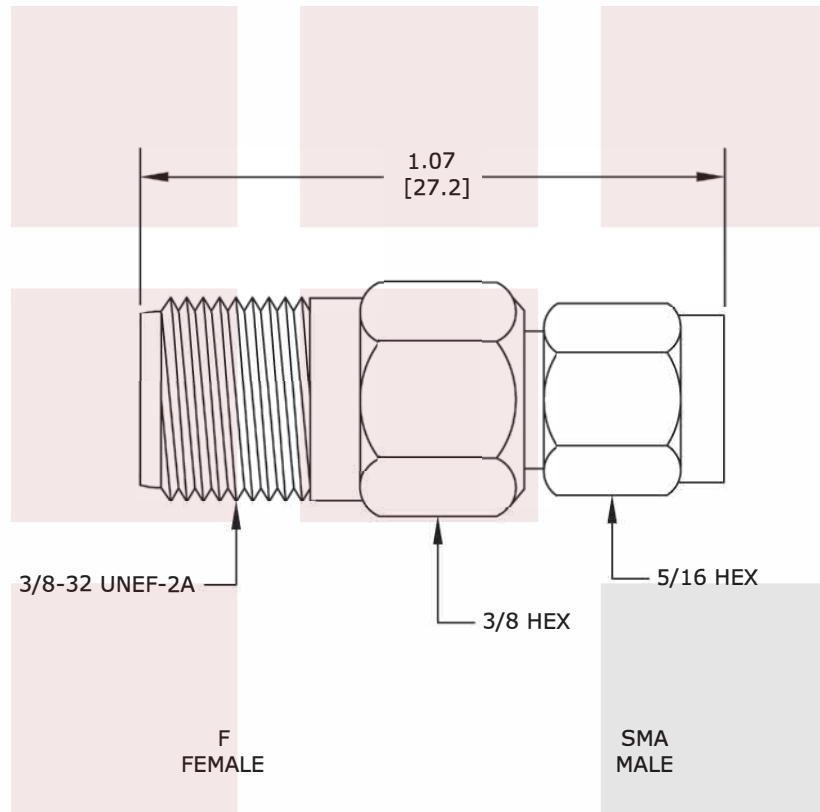
Notes:

50 Ohm SMA Male to 75 Ohm F 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: [50 Ohm SMA Male to 75 Ohm F Female Adapter SM3821](#)

URL: <https://www.fairviewmicrowave.com/50-ohm-sma-male-75-ohm-f-female-adapter-sm3821-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

FAIRVIEW MICROWAVE INC.

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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 SMA Male to 75 Ohm F Female Adapter	DWG NO SM3821	CAGE CODE 3FKR5		
	CAD FILE 111116 SHEET	SCALE N/A	SIZE A	41742