

## Matching Pad 50 Ohm SMA Female to 75 Ohm F Male Operating from DC to 3 GHz



### FM7077A

#### Features

- DC to 3 GHz Frequency Range
- 0.5 W Max Power (CW)
- Low VSWR < 1.25:1
- 50 Ohm/75 Ohm Impedance Matching

#### Applications

- CATV/Cable Networks
- Test and Measurement
- Communication Systems
- Wireless Systems

#### Description

Fairview Microwave's FM7077A is a 50 ohm SMA female to 75 ohm F male matching pad that operates from DC to 3 GHz. This SMA to F impedance matching pad offers a low VSWR of 1.25:1 max and attenuation of 7.5 dB max. FM7077A 50 ohm to 75 ohm minimum loss pad has a maximum CW power rating of 0.5 Watt. Matching pads are used to match the different impedance between two devices, maximizing power transfer between the two impedances. Fairview Microwave's minimum loss impedance matching pads are available in various connector combinations to fit your needs, all of which ship the same day.

#### Configuration

Design	Impedance Matching Pad
Connector 1	50 Ohms SMA Female
Connector 2	75 Ohms F Male

#### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
VSWR			1.25:1	
Attenuation		4	7.5	dB
Input Power, CW			0.5	Watts

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC-0.5	0.5-1	1-3			GHz
VSWR, Max	1.1:1	1.15:1	1.25:1			

#### Electrical Specification Notes:

- Attenuation 4 dB max from 50 Ohm port to 75 Ohm port.
- Attenuation 7.5 dB max from 75 Ohm port to 50 Ohm port.

#### Mechanical Specifications

<b>Size</b>	
Length	1.953 in [49.61 mm]
Width	0.433 in [11 mm]
Height	0.433 in [11 mm]
Weight	0.0487 lbs [22.09 g]
Package Type	Connectorized

Matching Pad 50 Ohm SMA Female to 75 Ohm F Male Operating from DC to 3 GHz



**FM7077A**

Housing Material and Plating	Brass, Tri-Metal over Copper
------------------------------	------------------------------

**Connector 1**

Description	Connector
Type	SMA Female
Impedance	50 Ohms
Inner Conductor Material and Plating	Beryllium Copper, Gold over Nickel over Copper
Dielectric Type	Teflon
Body Material and Plating	Brass, Tri-Metal over Copper

**Connector 2**

Description	Connector
Type	F Male
Impedance	75 Ohms
Inner Conductor Material and Plating	Phosphor Bronze, Gold over Nickel over Copper
Dielectric Type	Teflon
Body Material and Plating	Brass, Tri-Metal over Copper

**Environmental Specifications**

<b>Temperature</b> Operating Range	-30 to +70 deg C
---------------------------------------	------------------

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

**Plotted and Other Data**

Notes:

Matching Pad 50 Ohm SMA Female to 75 Ohm F Male Operating from DC to 3 GHz 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: [Matching Pad 50 Ohm SMA Female to 75 Ohm F Male Operating from DC to 3 GHz FM7077A](#)

URL: <https://www.fairviewmicrowave.com/matching-pad-50-ohm-sma-female-75-ohm-f-male-3-ghz-fm7077a-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

# FM7077A CAD Drawing

Matching Pad 50 Ohm SMA Female to 75 Ohm F Male Operating from DC to 3 GHz

