

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



**FM7072A**

**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 FM7072A is a 50 ohm N male to 75 ohm F male matching pad that operates from DC to 3 GHz. This N to F impedance matching pad offers a low VSWR of 1.25:1 max and attenuation of 7.5 dB max. FM7072A 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 N Male
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	2.25 in [57.15 mm]
Width	0.827 in [21.01 mm]
Height	0.827 in [21.01 mm]
Weight	0.097 lbs [44 g]
Package Type	Connectorized

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**FM7072A**

Housing Material and Plating	Brass, Tri-Metal over Copper
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**Connector 1**

Description	Connector
Type	N Male
Impedance	50 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

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

**Plotted and Other Data**

Notes:

Matching Pad 50 Ohm N Male 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.

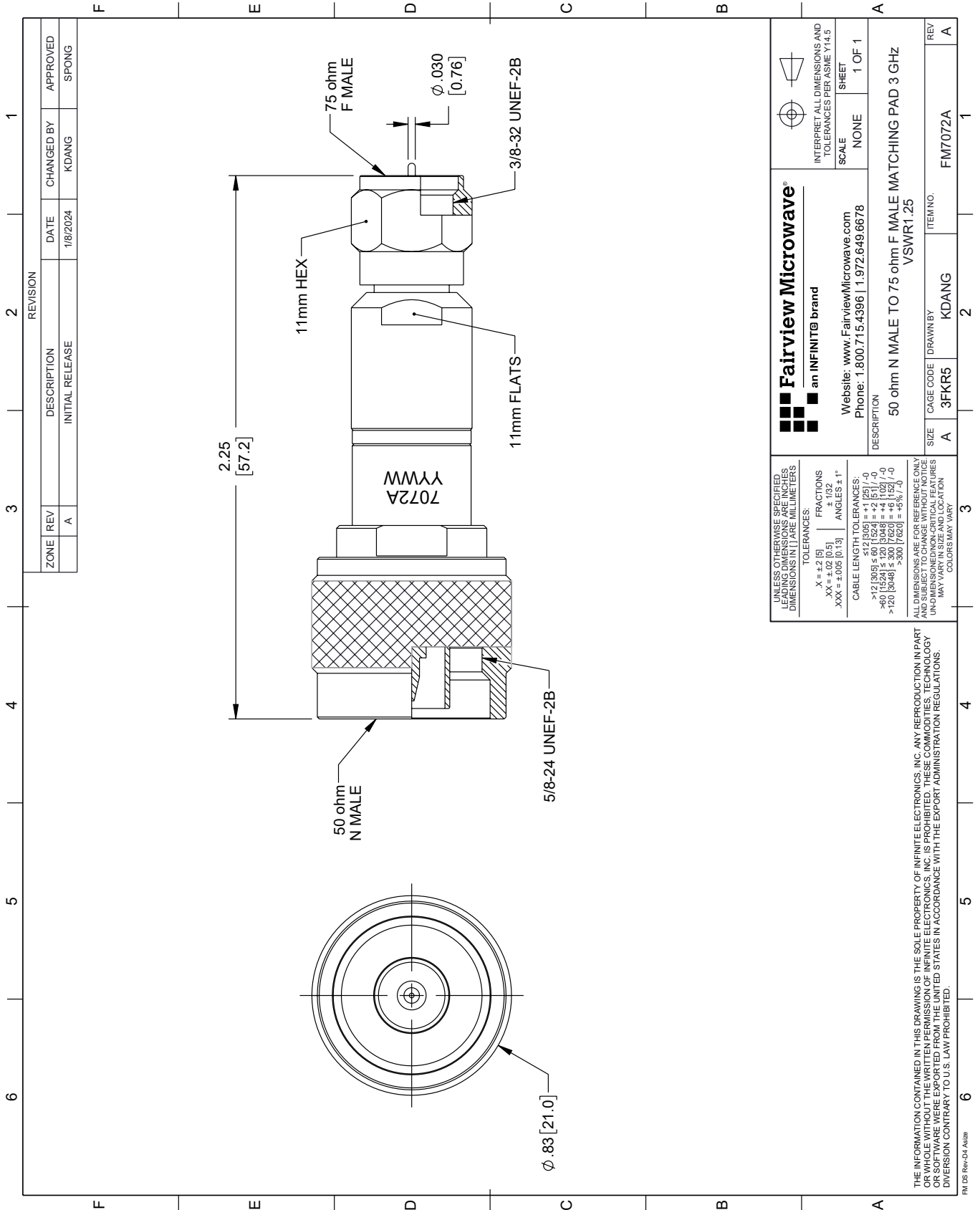
For additional information on this product, please click the following link: [Matching Pad 50 Ohm N Male to 75 Ohm F Male Operating from DC to 3 GHz FM7072A](#)

URL: <https://www.fairviewmicrowave.com/matching-pad-50-ohm-n-male-75-ohm-f-male-3-ghz-fm7072a-p.aspx>

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# FM7072A CAD Drawing

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



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION	INITIAL RELEASE	
A			KDANG	SPONG

**Fairview Microwave**  
an INFINIT® brand

Website: [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com)  
Phone: 1.800.715.4396 | 1.972.649.6678

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE  
SHEET: 1 OF 1

DESCRIPTION: 50 ohm N MALE TO 75 ohm F MALE MATCHING PAD 3 GHz VSWR1.25

SIZE: A  
CAGE CODE: 3FKR5  
DRAWN BY: KDANG  
ITEM NO.: FM7072A

REV: A

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

TOLERANCES:  
 .X = ±.2 [5]  
 .XX = ±.02 [0.5]  
 .XXX = ±.005 [0.13]

FRACTIONS: ± 1/32  
 ANGLES: ± 1°

CABLE LENGTH TOLERANCES:  
 <12 [305] ≤ 60 [1524] = ±.1 [25] / -0  
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = ±.8 [20] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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FM DS Rev-D4 Alt2