

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



### FM7007A

#### 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 FM7007A is a 50 ohm BNC female to 75 ohm BNC male matching pad that operates from DC to 3 GHz. This BNC to BNC impedance matching pad offers a low VSWR of 1.25:1 max and attenuation of 7.5 dB max. FM7007A 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	75 Ohms BNC Male
Connector 2	50 Ohms BNC Female

#### 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

##### Size

Length	2.087 in [53.01 mm]
Width	0.571 in [14.5 mm]
Height	0.571 in [14.5 mm]
Weight	0.0569 lbs [25.81 g]
Package Type	Connectorized

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**FM7007A**

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

Description	Connector
Type	BNC 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

**Connector 2**

Description	Connector
Type	BNC Female
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

**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 75 Ohm BNC Male to 50 Ohm BNC Female 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.

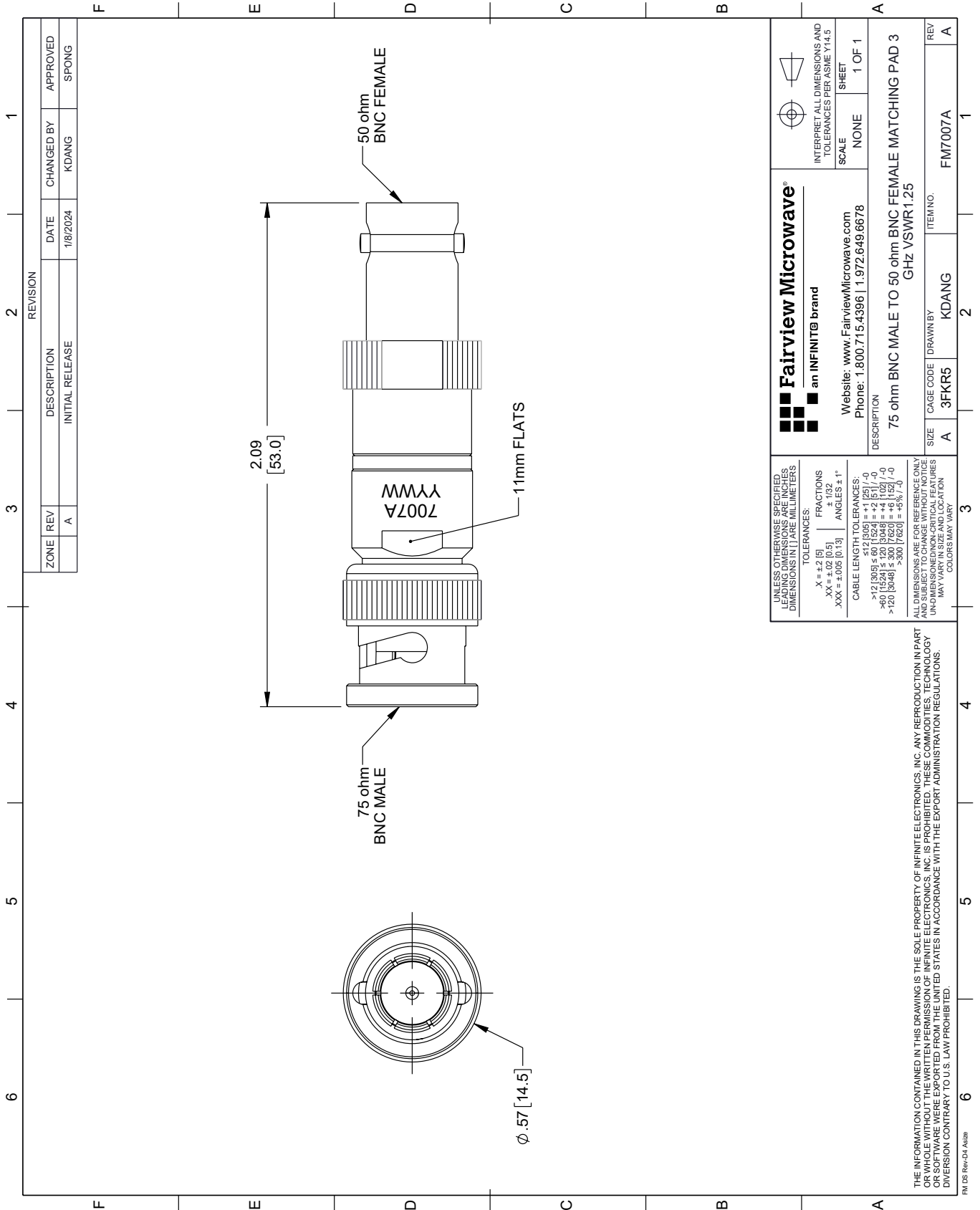
For additional information on this product, please click the following link: [Matching Pad 75 Ohm BNC Male to 50 Ohm BNC Female Operating from DC to 3 GHz FM7007A](#)

URL: <https://www.fairviewmicrowave.com/matching-pad-75-ohm-bnc-male-50-ohm-bnc-female-3-ghz-fm7007a-p.aspx>

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# FM7007A CAD Drawing

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REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	1/8/2024	KDANG	SPONG

**Fairview Microwave®**  
an INFINIT® brand

Website: [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com)  
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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [ ] ARE IN MILLIMETERS.

TOLERANCES:  
 .X = ±.2 [5]      FRACTIONS ± 1/32  
 .XX = ±.02 [0.5]      ANGLES ± 1°  
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:  
 >12 [305] ≤ 60 [1524] = ±.1 [2.5] / -0  
 >60 [1524] ≤ 120 [3048] = ±.4 [10.2] / -0  
 >120 [3048] ≤ 300 [7620] = ±.8 [20.3] / -0

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

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE      SHEET: 1 OF 1

DESCRIPTION: 75 ohm BNC MALE TO 50 ohm BNC FEMALE MATCHING PAD 3 GHz VSWR1.25

SIZE: A      CAGE CODE: 3FKR5      DRAWN BY: KDANG      ITEM NO.: FM7007A

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FM DS Rev-D4 Alt2b