

2 dB Fixed Attenuator TNC Male (Plug) to TNC Female (Jack)  
DC to 12 GHz Rated to 2 Watts, Brass Body, 1.35:1 VSWR



**FMAT7469-2**

**Features**

- DC to 12 GHz Frequency Range
- TNC Connectorized Design
- Attenuation 2 dB  $\pm$ 1 dB
- Max Power 2 Watts (CW)
- Max VSWR of 1.35:1

**Applications**

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems
- WIFI 6E
- 5G Cellular bands

**Description**

Fairview Microwave carries a wide range of fixed attenuators with a broad selection of attenuation levels, frequency ranges, and power dissipation ranges. RF microwave attenuators (also known as RF pads) lower the amplitude of a signal (attenuate) a known amount and can be used in a wide variety of applications. These attenuator pads are used when a signal needs to be reduced to protect measurement equipment or other circuitry, to extend the range of power meters and amplifiers, and to impedance match circuits by reducing the VSWR seen by adjacent components. RF attenuators can prevent signal overload in amplifiers, receivers and detectors, adjusting the signal level to a range that is optimal.

Few RF components are as commonly used as fixed coaxial attenuators, and Fairview Microwave carries one of the largest in-stock varieties and ships them same day. The 2 dB Fixed Attenuator FMAT7469-2 is rated to and operates from DC to 12 GHz. The versatile coaxial package uses TNC female to TNC male connectors.

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12	GHz
Impedance		50		Ohms
Nominal Attenuation		2		dB
VSWR			1.35:1	
Input Power, CW			2	Watts

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2	2 to 5	5 to 10	10 to 12		GHz
VSWR, Max	1.15:1	1.25:1	1.35:1	1.35:1		
Attenuation Accuracy, Typ	0.2	0.3	0.5	1		dB

**Mechanical Specifications**

**Size**

- Length 2.09 in [53.09 mm]
- Width/Diameter 0.63 in [16 mm]
- Height 0.63 in [16 mm]
- Weight 0.1 lbs [45.36 g]
- Body Material and Plating Brass, Tri-Metal

2 dB Fixed Attenuator TNC Male (Plug) to TNC Female (Jack)  
DC to 12 GHz Rated to 2 Watts, Brass Body, 1.35:1 VSWR



## FMAT7469-2

### Configuration

Design	Fixed, Bi-Directional
Package Style	Conectorized

### Connectors

Description	Connector 1	Connector 2
Type	TNC Female	TNC Male
Contact Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

### Environmental Specifications

#### Temperature

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

### Plotted and Other Data

Notes:

### Typical Performance Data

2 dB Fixed Attenuator TNC Male (Plug) to TNC Female (Jack) DC to 12 GHz Rated to 2 Watts, Brass Body, 1.35:1 VSWR 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.

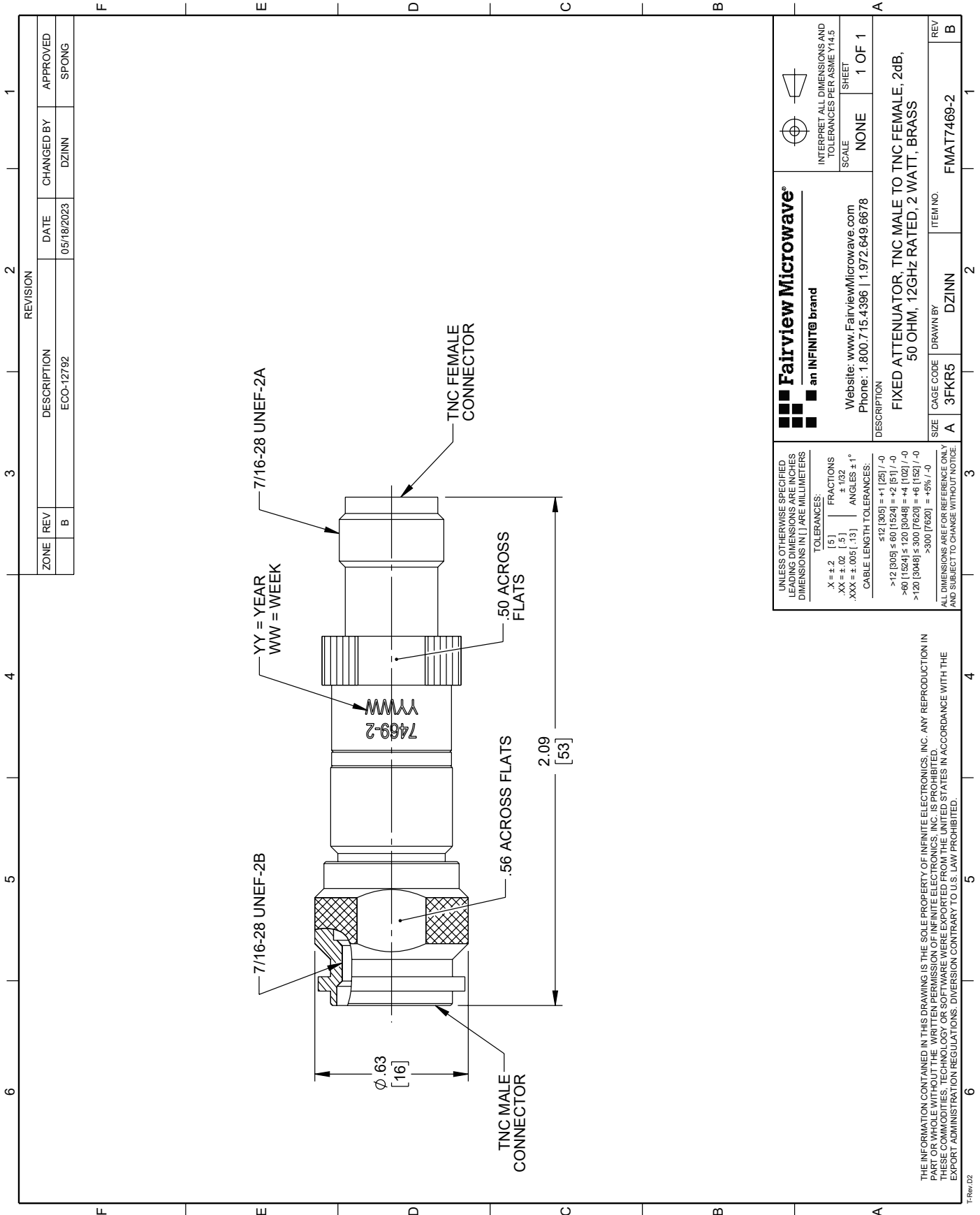
For additional information on this product, please click the following link: [2 dB Fixed Attenuator TNC Male \(Plug\) to TNC Female \(Jack\) DC to 12 GHz Rated to 2 Watts, Brass Body, 1.35:1 VSWR FMAT7469-2](#)

URL: <https://www.fairviewmicrowave.com/2db-fixed-attenuator-tnc-female-tnc-male-2-watts-fmat7469-2-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 impliment 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.

# FMAT7469-2 CAD Drawing

2 dB Fixed Attenuator TNC Male (Plug) to TNC Female (Jack) DC to 12 GHz Rated to 2 Watts, Brass Body, 1.35:1 VSWR



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	B	ECO-12792	05/18/2023	DZINN	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

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

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

CABLE LENGTH TOLERANCES:  
 ≤12 [305] = ±.1 [25] / -0  
 >12 [305] ≤ 60 [1524] = ±.2 [5] / -0  
 >60 [1524] ≤ 120 [3048] = ±.4 [10] / -0  
 >120 [3048] ≤ 300 [7620] = ±.8 [20] / -0  
 >300 [7620] = ±.8% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

DESCRIPTION: **FIXED ATTENUATOR, TNC MALE TO TNC FEMALE, 2dB, 50 OHM, 12GHz RATED, 2 WATT, BRASS**

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	DZINN	FMAT7469-2

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

TRev.02