

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



FMAT7469-1

Features

- DC to 12 GHz Frequency Range
- TNC Connectorized Design
- Attenuation 1 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 are 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 1 dB Fixed Attenuator FMAT7469-1 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		1		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

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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

1 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.

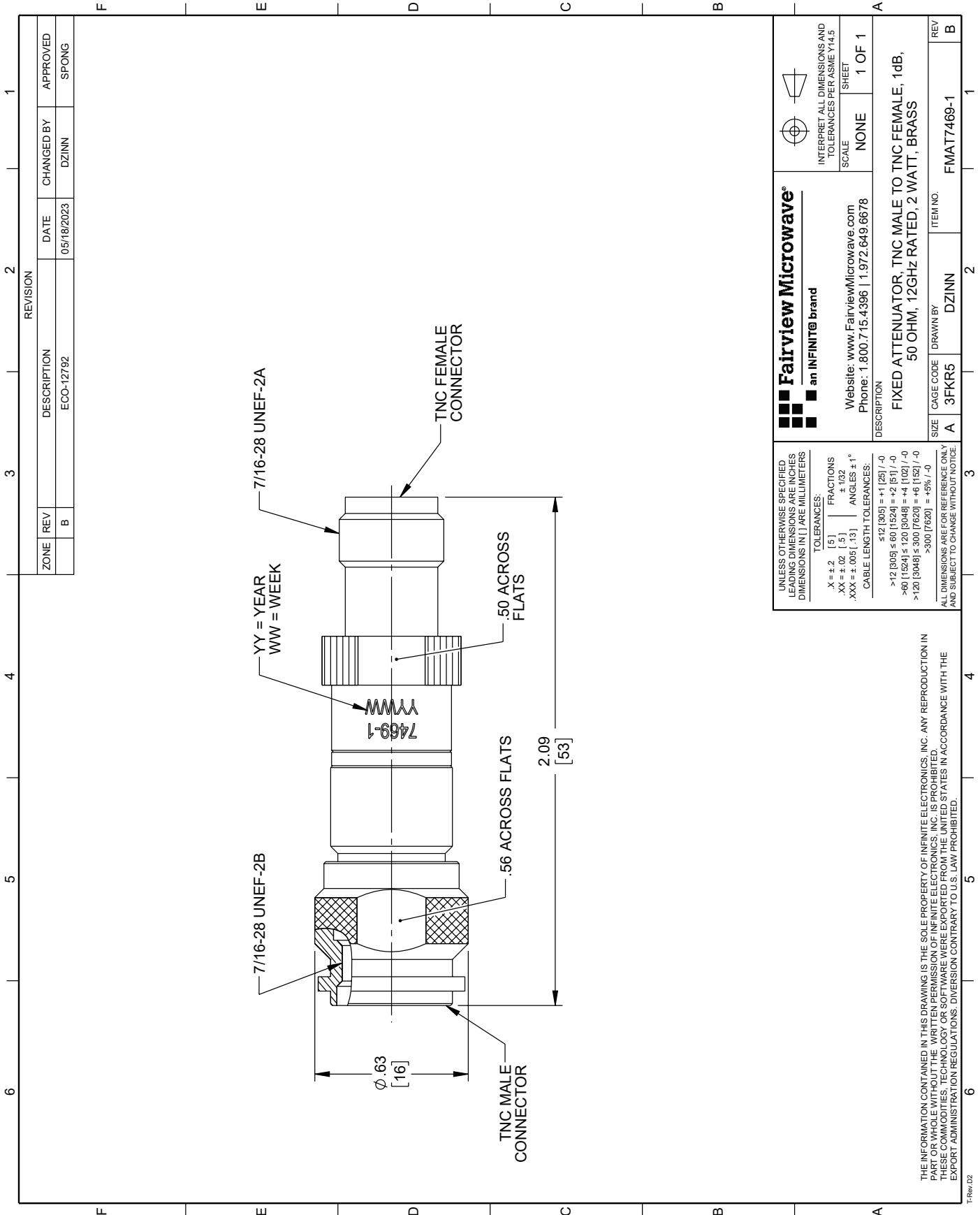
For additional information on this product, please click the following link: [1 dB Fixed Attenuator TNC Male \(Plug\) to TNC Female \(Jack\) DC to 12 GHz Rated to 2 Watts, Brass Body, 1.35:1 VSWR FMAT7469-1](#)

URL: <https://www.fairviewmicrowave.com/1db-fixed-attenuator-tnc-female-tnc-male-2-watts-fmat7469-1-p.aspx>

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FMAT7469-1 CAD Drawing

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

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Website: www.FairviewMicrowave.com
Phone: 1.800.715.4396 | 1.972.649.6678

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
X ± .2 [5] FRACTIONS
.XX ± .02 [5] ± 1/32
.XXX ± .005 [13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:
≤ 12 [305] = ± 1 [25] / -0
> 12 [305] ≤ 60 [1524] = ± 2 [51] / -0
> 60 [1524] ≤ 120 [3048] = ± 4 [102] / -0
> 120 [3048] ≤ 300 [7620] = ± 8 [152] / -0
> 300 [7620] = ± 8% / -0

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

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE SHEET 1 OF 1

DESCRIPTION
FIXED ATTENUATOR, TNC MALE TO TNC FEMALE, 1dB,
50 OHM, 12GHz RATED, 2 WATT, BRASS

SIZE A CAGE CODE 3FKR5 DRAWN BY DZINN ITEM NO. FMAT7469-1

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