

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

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 10 dB Fixed Attenuator FMAT7469-10 is rated to and operates from DC to 12 GHz. The versatile coaxial package uses TNC female to TNC male connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		12	GHz
Impedance		50		Ohms
Nominal Attenuation		10		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 Acc., Typ ± 0.2	± 0.3	± 0.5	± 1			\pm 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

Configuration

Design	Fixed, Bi-Directional
Package Style	Conectorized



Features:

- DC to 12 GHz Frequency Range
- TNC Connectorized Design
- Attenuation 10 dB ± 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

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Connectors

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

Environmental Specifications

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

Plotted and Other Data

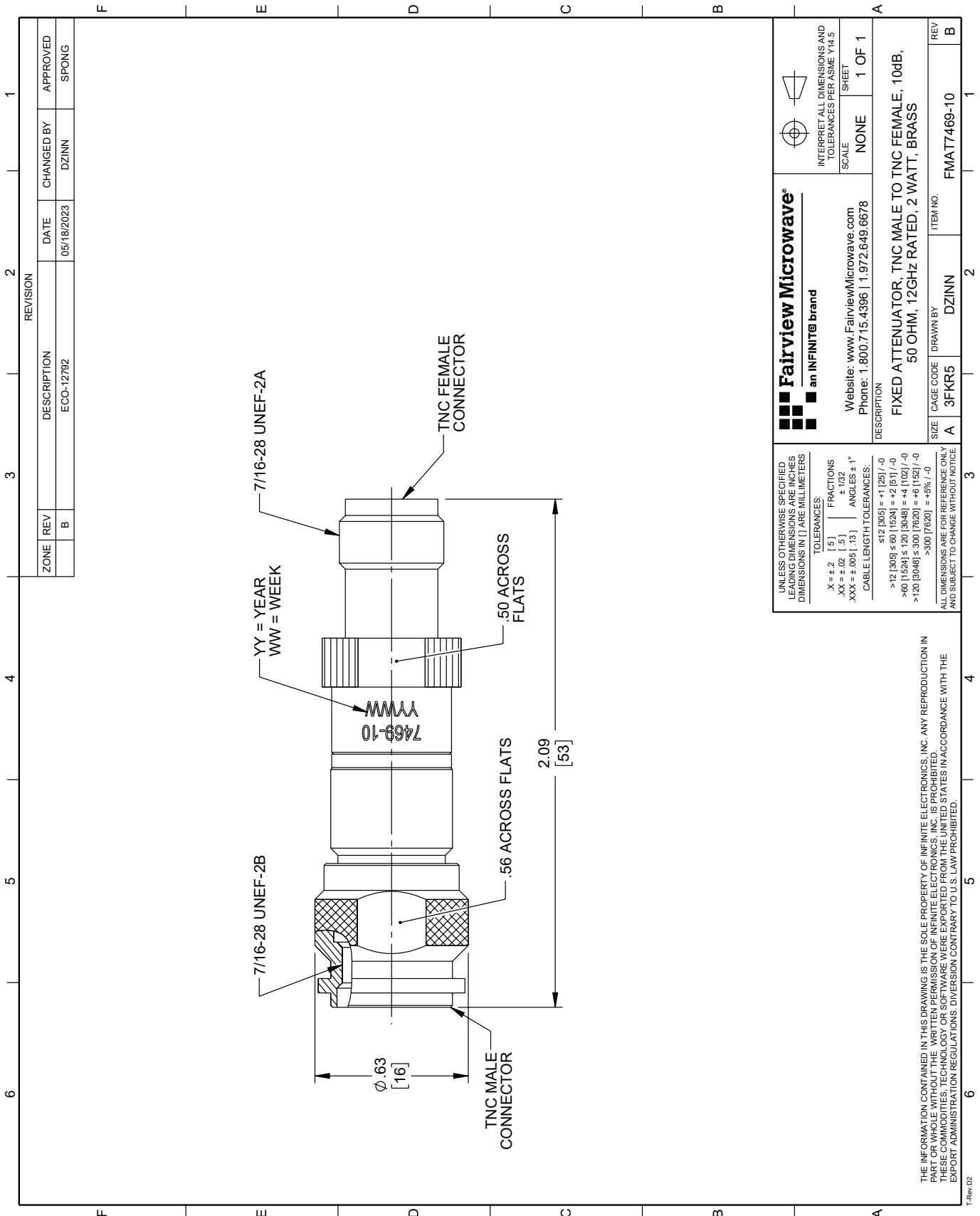
Notes:

10 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: [10 dB Fixed Attenuator TNC Male \(Plug\) to TNC Female \(Jack\) DC to 12 GHz Rated to 2 Watts, Brass Body, 1.35:1 VSWR FMAT7469-10](#)

URL: <https://www.fairviewmicrowave.com/10db-fixed-attenuator-tnc-female-tnc-male-2-watts-fmat7469-10-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.



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

<p>Fairview Microwave an INFINIT[®] brand</p> <p>Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>	
<p>DESCRIPTION: FIXED ATTENUATOR, TNC MALE TO TNC FEMALE, 10dB, 50 OHM, 12GHz RATED, 2 WATT, BRASS</p>			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	DZINN	FMAT7469-10

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

TOLERANCES:

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

CABLE LENGTH TOLERANCES:

512 [305]	= +1 [25] / -0
>12 [305] ≤ 60 [1524]	= +2 [51] / -0
>60 [1524] ≤ 120 [3048]	= +4 [102] / -0
>120 [3048] ≤ 300 [7620]	= +6 [152] / -0
>300 [7620]	= +5% / -0

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

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