

10dB RF fixed attenuator 10W, DC to 18GHz, TNC male to female

Fairview Microwave carries a broad selection of fixed attenuators with a wide range of attenuation levels, frequency ranges, and power dissipation ranges. Also known as RF pads, RF microwave attenuators lower the amplitude of a signal (attenuate) a known amount. These attenuators pads can be used in a wide variety of applications including reducing a signal level to protect measurement equipment or other circuitry, extending the range of power meters and amplifiers, and impedance matching 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 FMAT7606-10 is a 10 dB Fixed Attenuators that operates from DC to 18 GHz and is rated to 10 Watts. The versatile coaxial package uses TNC male to TNC female connectors and is also REACH and RoHS compliant.



Features:

- Bidirectional
- DC to 18 GHz Range
- Attenuation 10 +/- 1.0 dB
- 10 Watts Average Input Power
- VSWR <1.40:1

Applications:

- Precision Measurements
- Production Systems
- Instrumentation
- Prototyping and Characterization

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Nominal Attenuation		10		dB
VSWR			1.4:1	
Input Power, CW			10	Watts
Input Power, Peak 5μs pulse w/ 0.4% duty cycle			1	kWatts

Mechanical Specifications

Size	
Length	3.03149 in [77 mm]
Width/Diameter	1.49606 in [38 mm]
Height	1.49606 in [38 mm]
Weight	0.24696 lbs [112.02 g]
Body Material and Plating	Black Anodized Aluminum

Configuration

Design	Fixed, Bidirectional
--------	----------------------

Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Female
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold
Body Material & Plating	Brass, Nickel	Brass, Nickel

Environmental Specifications

Temperature

Operating Range	+125 to -55 deg C
-----------------	-------------------

Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

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

Plotted and Other Data

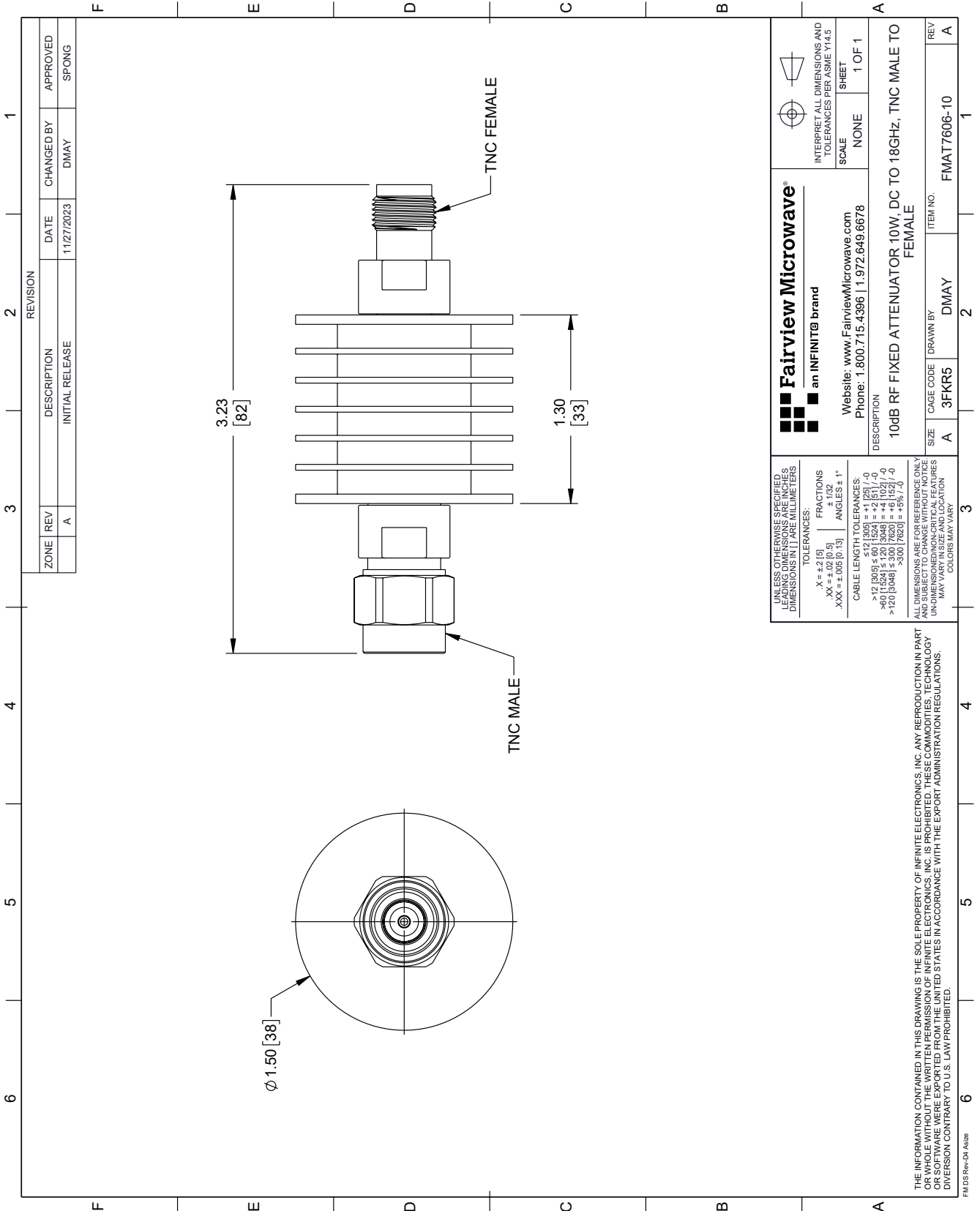
Notes:

10dB RF fixed attenuator 10W, DC to 18GHz, TNC male to female 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: [10dB RF fixed attenuator 10W, DC to 18GHz, TNC male to female FMAT7606-10](#)

URL:

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.



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	INITIAL RELEASE	11/27/2023	DMAY
				SPONG

Fairview Microwave an INFINIT [®] brand Website: 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: 10dB RF FIXED ATTENUATOR 10W, DC TO 18GHz, TNC MALE TO FEMALE ITEM NO.: FMAT7606-10
TOLERANCES: .X = ±.2 [5] FRACTIONS ± 1/32 .XX = ±.02 [0.5] ANGLES ± 1° .XXX = ±.005 [0.13]	SIZE: A CAGE CODE: 3FKR5 DRAWN BY: DMAY
CABLE LENGTH TOLERANCES: ≤ 12 [305] ± .60 [1524] = ±.2 [5.1] / -0 > 12 [305] ≤ 60 [1524] ± .60 [1524] = ±.2 [5.1] / -0 > 60 [1524] ≤ 300 [7620] ± .60 [1524] = ±.2 [5.1] / -0 > 300 [7620] ± .60 [1524] = ±.2 [5.1] / -0	REV: A REV: 1

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UNDIMENSIONED CRITICAL FEATURES MAY VARY. COLORS MAY VARY.

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.