

40dB RF fixed attenuator 10W, DC to 18GHz, TNC male to female



FMAT7606-40

Features

- Bidirectional
- DC to 18 GHz Range
- Attenuation 40 +/- 1.2 dB
- 10 Watts Average Input Power
- VSWR <1.40:1

Applications

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

Description

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 FMAT7606-40 is a 40 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Nominal Attenuation		40		dB
VSWR			1.4:1	
Input Power, CW			10	Watts
Input Power, Peak			1	kWatts
5μs pulse w/ 0.4% duty cycle				

Mechanical Specifications

Size

Length	3.03149 in [77 mm]
Width/Diameter	1.49606 in [38 mm]
Height	1.49606 in [38 mm]
Weight	0.054 lbs [24.49 g]
Body Material and Plating	Black Anodized Aluminum

Configuration

Design	Fixed, Bidirectional
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Connectors

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

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data

40dB 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.

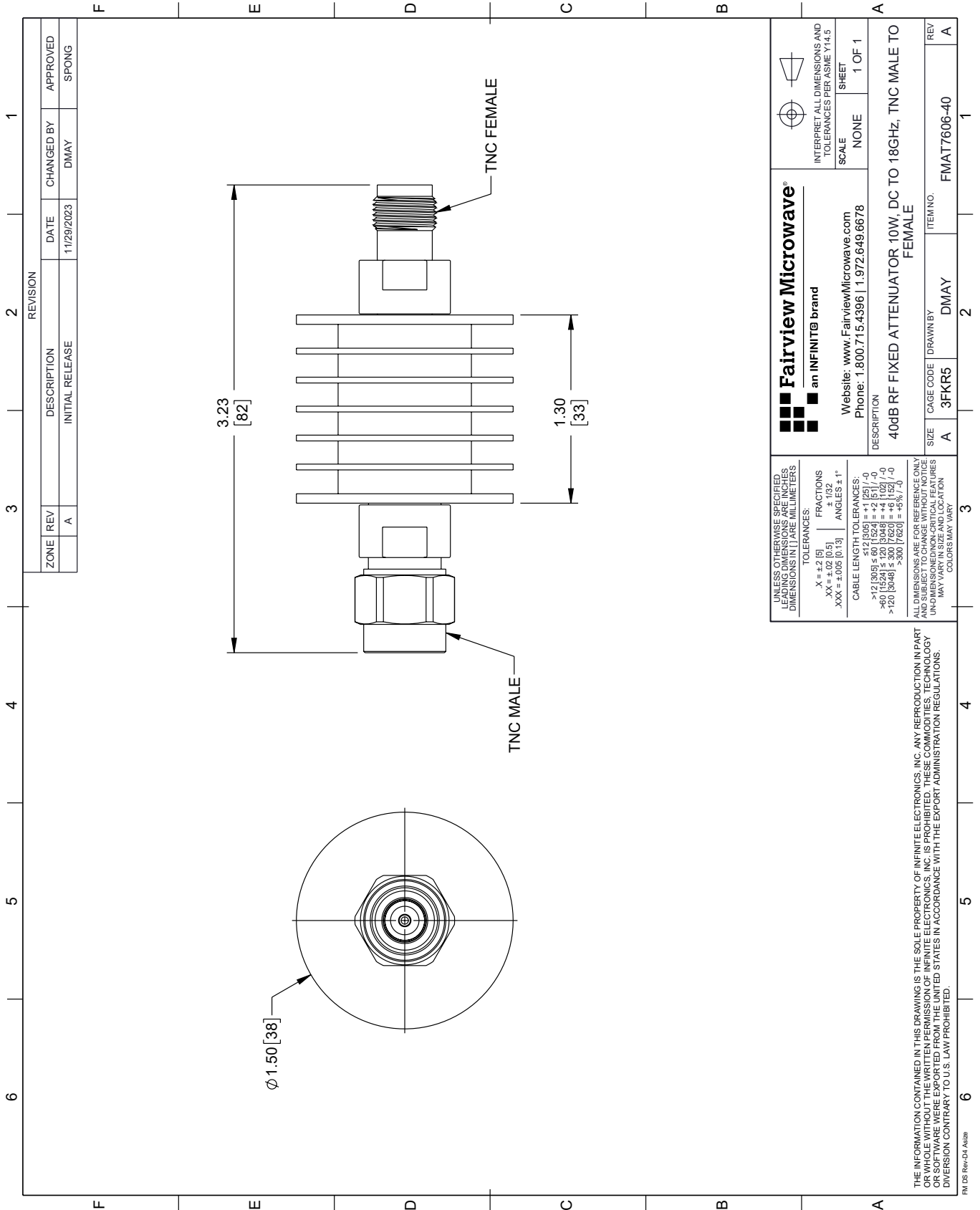
For additional information on this product, please click the following link: [40dB RF fixed attenuator 10W, DC to 18GHz, TNC male to female FMAT7606-40](#)

URL: <https://www.fairviewmicrowave.com/40db-fixed-attenuator-tnc-male-tnc-female-10-watts-fmat7606-40-p.aspx>

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FMAT7606-40 CAD Drawing

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REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	11/29/2023	DMAY	SPONG

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SCALE: NONE
SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

DESCRIPTION: 40dB RF FIXED ATTENUATOR 10W, DC TO 18GHz, TNC MALE TO FEMALE

SIZE: A
CAGE CODE: 3FKR5
DRAWN BY: DMAY
ITEM NO.: FMAT7606-40

REV: A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS 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 [25] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±.6 [152] / -0
 >300 [7620] = ±.8 [203] / -0

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

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FM DS Rev-D4 Alt2b