

2 dB Fixed Attenuator TNC Male (Plug) to TNC Female (Jack) DC to 18 GHz Rated to 5 Watt Black Anodized Aluminum Heatsink Body 1.3:1 VSWR



FMAT7625-2

Features

- DC to 18 GHz Frequency Range
- TNC Connectorized Design
- Attenuation 2 dB \pm 0.8 dB
- Max Power 5 Watts (CW)
- Max VSWR of 1.3:1

Applications

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

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 (or attenuate) a known amount. These attenuator 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 FMAT7625-2 is a 2 dB Fixed Attenuator that operates from DC to 18 GHz and is rated to 5 Watts. The versatile coaxial package uses TNC male to TNC female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Nominal Attenuation		2		dB
Attenuation Accuracy		\pm 0.5	\pm 0.8	dB
VSWR			1.3:1	
Input Power, CW			5	Watts
Derated linearly to 0.5W @ 125°C				
Input Power, Peak			500	Watts
5 μ Sec PW, 1% duty cycle				

Mechanical Specifications

Size

- Length 1.65 in [41.91 mm]
- Width/Diameter 0.62 in [15.75 mm]
- Height 0.62 in [15.75 mm]
- Weight 0.02 lbs [9.07 g]
- Body Material and Plating Black Anodized Aluminum

Configuration

- Design Fixed, Bidirectional
- Package Style Connectorized

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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

2 dB Fixed Attenuator TNC Male (Plug) to TNC Female (Jack) DC to 18 GHz Rated to 5 Watt Black Anodized Aluminum Heatsink Body 1.3:1 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.

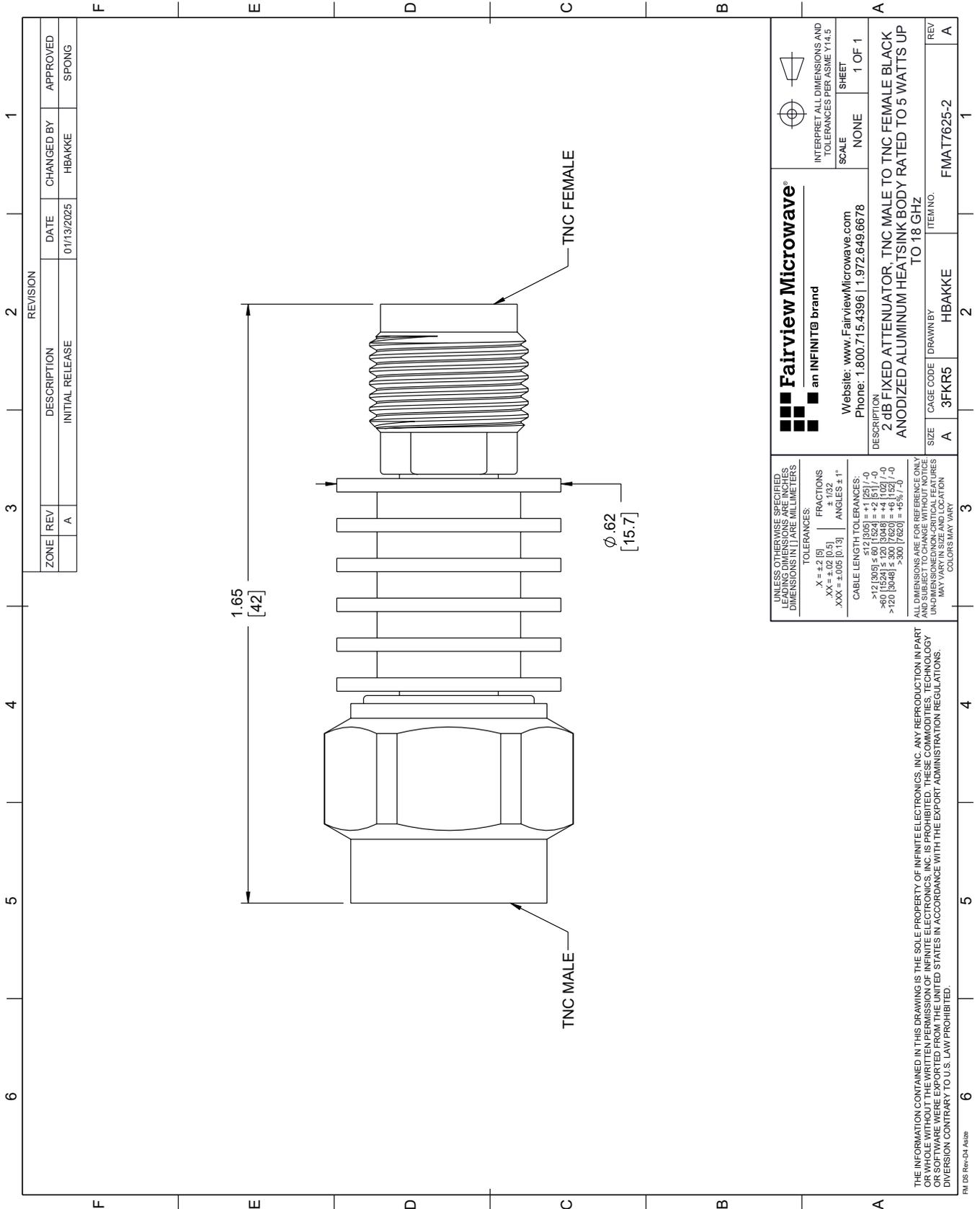
For additional information on this product, please click the following link: [2 dB Fixed Attenuator TNC Male \(Plug\) to TNC Female \(Jack\) DC to 18 GHz Rated to 5 Watt Black Anodized Aluminum Heatsink Body 1.3:1 VSWR FMAT7625-2](#)

URL: <https://www.fairviewmicrowave.com/2db-fixed-attenuator-tnc-male-tnc-female-5-watts-fmat7625-2-p.aspx>

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FMAT7625-2 CAD Drawing

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REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	01/13/2025	HBAKKE	SPONG

Fairview Microwave®
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [] ARE 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] = ±.1 [25] / -0
 >120 [3048] ≤ 300 [7620] = ±.5% / -0

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

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