

30dB RF fixed attenuator 2W, DC to 18GHz, TNC male to female, Brass



## FMAT7605-30

### Features

- Bidirectional
- DC to 18 GHz Range
- Attenuation 30 +/- 1.2 dB
- 2 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 FMAT7605-30 is a 30 dB Fixed Attenuators that operates from DC to 18 GHz and is rated to 2 Watts. The versatile coaxial package uses TNC male to TNC female brass 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		30		dB
VSWR			1.4:1	
Input Power, CW			2	Watts
Input Power, Peak			500	Watts
5μs pulse w/ 0.4% duty cycle				

### Mechanical Specifications

#### Size

Length	3.03149 in [77 mm]
Width/Diameter	0.7874 in [20 mm]
Height	0.7874 in [20 mm]
Weight	0.54 lbs [244.94 g]
Body Material and Plating	Brass, Nickel

#### Configuration

Design	Fixed, Bidirectional
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## FMAT7605-30

### 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

30dB RF fixed attenuator 2W, DC to 18GHz, TNC male to female, Brass 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.

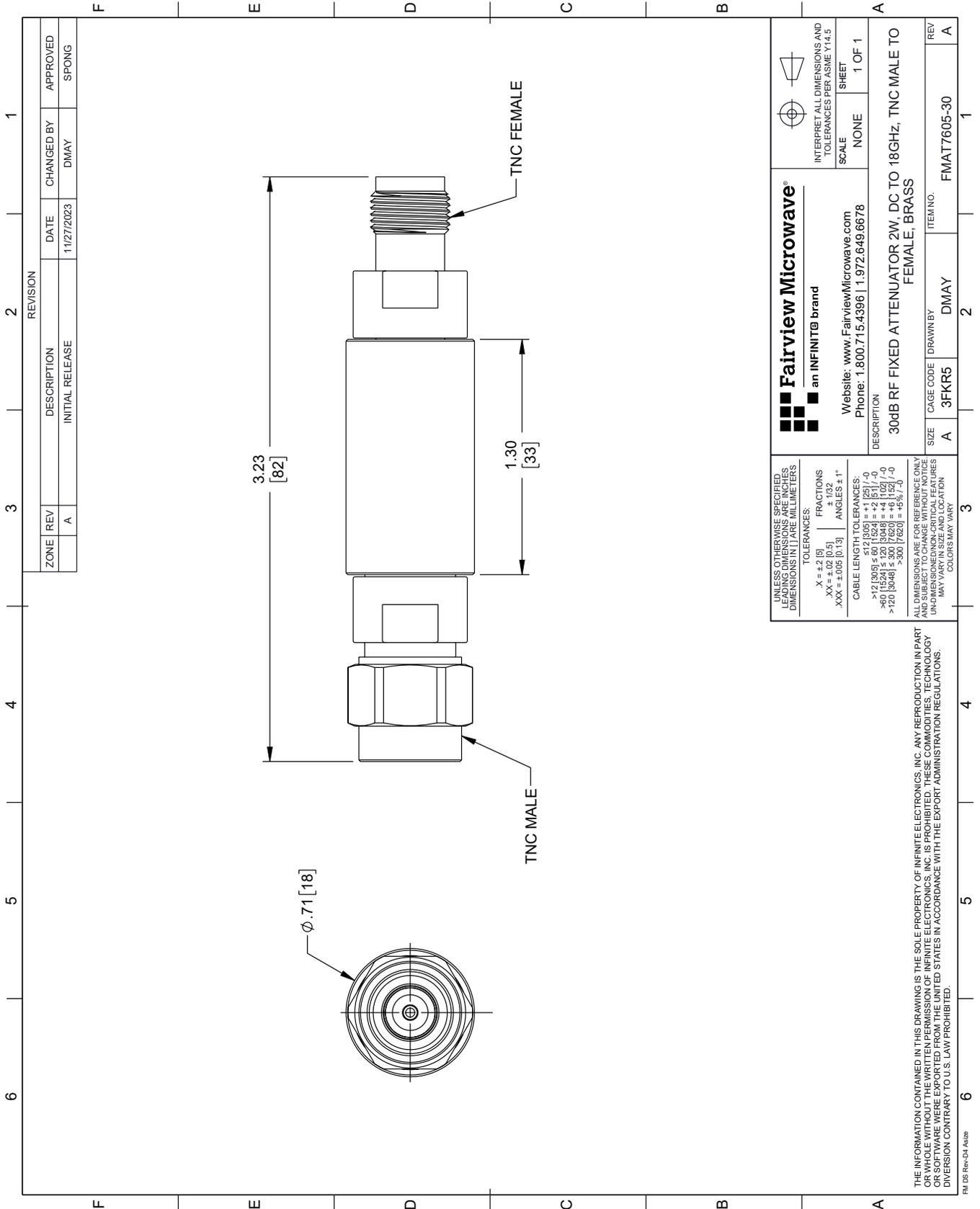
For additional information on this product, please click the following link: [30dB RF fixed attenuator 2W, DC to 18GHz, TNC male to female, Brass FMAT7605-30](#)

URL: <https://www.fairviewmicrowave.com/30db-fixed-attenuator-tnc-male-tnc-female-2-watts-fmat7605-30-p.aspx>

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# FMAT7605-30 CAD Drawing

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an INFINITIB® brand

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Phone: 1.800.715.4396 | 1.972.649.6678

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND UNLEADING 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 [15] / -0

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

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE  
SHEET: 1 OF 1

DESCRIPTION: 30dB RF FIXED ATTENUATOR 2W, DC TO 18GHz, TNC MALE TO FEMALE, BRASS

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	DMAY	FMAT7605-30

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