

20 dB Fixed Attenuator, 75 Ohm F Male to 75 Ohm F Female Brass Tri-Metal Body Rated to 2 Watts Up to 3 GHz

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 FMAT7396-20 is a 20 dB Fixed Attenuator that operates from DC to 3 GHz and is rated to 2 Watts. The versatile coaxial package uses type F male to type F female connectors and is also REACH and RoHS compliant.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
Impedance		75		Ohms
Nominal Attenuation		20		dB
VSWR			1.3:1	
Input Power, CW			2	Watts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 2	2 to 3				GHz
Atten Accuracy, Typ	0.5	3				dB

Mechanical Specifications

Size

Length	2.02 in [51.31 mm]
Width/Diameter	0.43 in [10.92 mm]
Height	0.43 in [10.92 mm]
Weight	0.06 lbs [27.22 g]
Body Material and Plating	Brass, Tri-Metal

Configuration

Design	Fixed
Package Style	Connectorized Module



Features:

- DC to 3 GHz Frequency Range
- Attenuation 20±3 dB
- Max Power 2 Watts (CW)
- VSWR < 1.3:1

Applications:

- Instrumentation
- Cable TV and Video Distribution
- Prototyping and characterization
- Production systems

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Connectors

Description	Connector 1	Connector 2
Type	F Male	F Female
Contact Material & Plating	Brass, Gold	Phosphor Bronze, Gold
Contact Plating Spec.	4 μ -inch min.	4 μ -inch min.
Dielectric Type	Teflon	Teflon
Coupling Nut Material & Plating	Brass, Tri-Metal	
Hex Size	7/16 in.	
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	100 μ -inch min.	100 μ -inch min.

Environmental Specifications

Temperature

Operating Range -55 to +80 deg C

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

Plotted and Other Data

Notes:

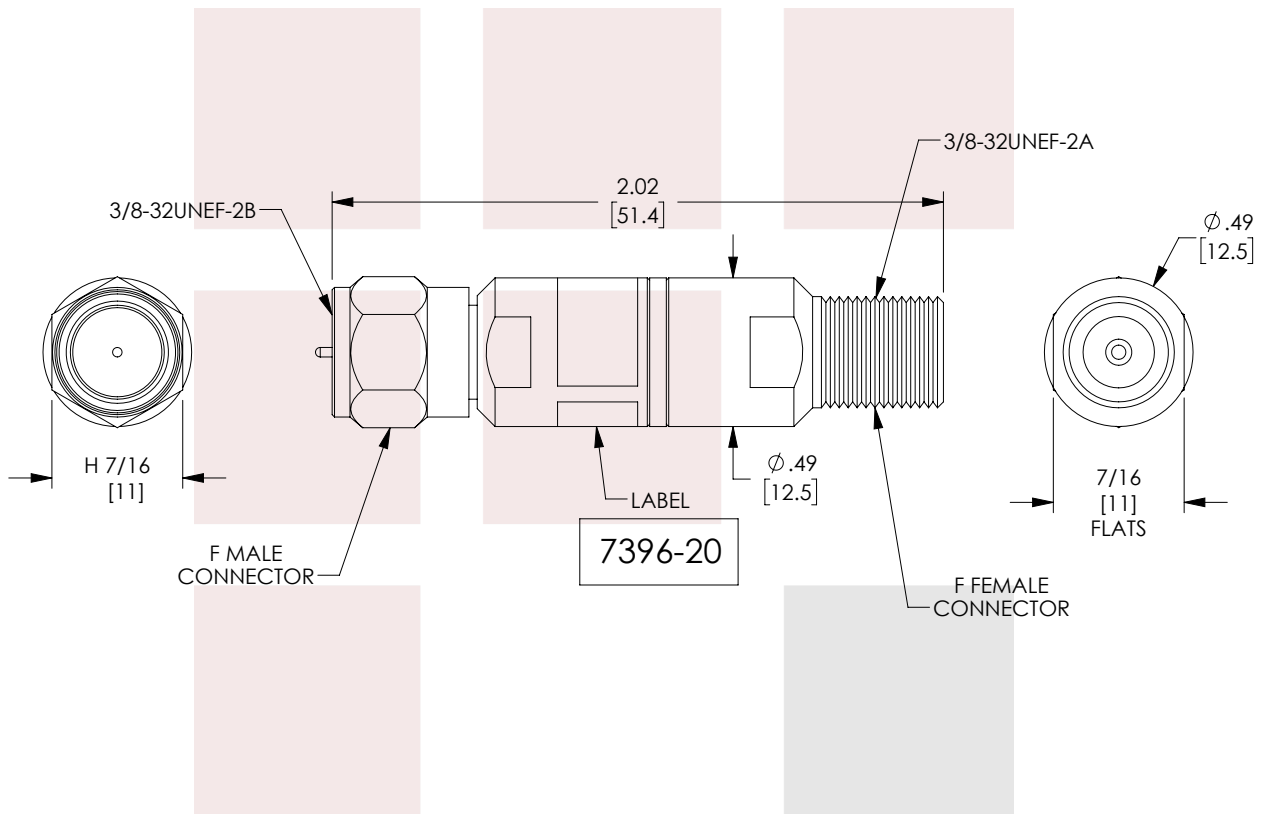
20 dB Fixed Attenuator, 75 Ohm F Male to 75 Ohm F Female Brass Tri-Metal Body Rated to 2 Watts Up to 3 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [20 dB Fixed Attenuator, 75 Ohm F Male to 75 Ohm F Female Brass Tri-Metal Body Rated to 2 Watts Up to 3 GHz FMAT7396-20](#)

URL: <https://www.fairviewmicrowave.com/20db-fixed-attenuator-f-male-f-female-2-watts-fmat7396-20-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.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	07/19/2022	SPONG



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TITLE

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

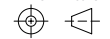
TOLERANCES:

.X = ±.2 [5.08] FRACTIONS ± 1/32
.XX = ±.02 [.51] ANGLES ± 1°
.XXX = ±.005 [.13]

CABLE LENGTH (L) TOLERANCES:

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

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY BPUCHASKI	ITEM NO. FMAT7396-20	REV A
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T-Rev.D