10 dB Fixed Attenuator SMP Male (Plug) to SMP Female (Jack) Up to 18 GHz Rated to 1 Watt, Stainless Steel Body, 1.35:1 VSWR

FMAT7470-10

Features

- DC to 18 GHz Frequency Range
- SMP Connectorized Design
- Attenuation 10 dB ±0.8 dB
- Max Power 1 Watt (CW)
- Max VSWR of 1.35:1

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 FMAT7470-10 is a 10 dB Fixed Attenuator that operates from DC to 18 GHz and is rated to 1 Watt. The versatile coaxial package uses SMP male to SMP female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Nominal Attenuation		10		dB
Attenuation Accuracy		0.8		dB
VSWR			1.35:1	
Input Power, CW			1	Watt
average to 25°C ambient temperature, derated linearly to 0.5W @ 125°C.				
Input Power, Peak			100	Watts
5µs pulse, 1% duty cycle				

Mechanical Specifications

Size

Length	0.835 in [21.21 mm]
Width/Diameter	0.315 in [8 mm]
Height	0.315 in [8 mm]
Weight	0.01 lbs [4.54 g]
Body Material and Plating	Stainless Steel

Configuration

Design	Fixed, Bidirectional
Package Style	Connectorized Module

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Connectors

Description	Connector 1	Connector 2
Type	SMP Male	SMP Female
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material and Plating	Stainless Steel	Stainless Steel

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

10 dB Fixed Attenuator SMP Male (Plug) to SMP Female (Jack) Up to 18 GHz Rated to 1 Watt, Stainless Steel Body, 1.35:1 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.
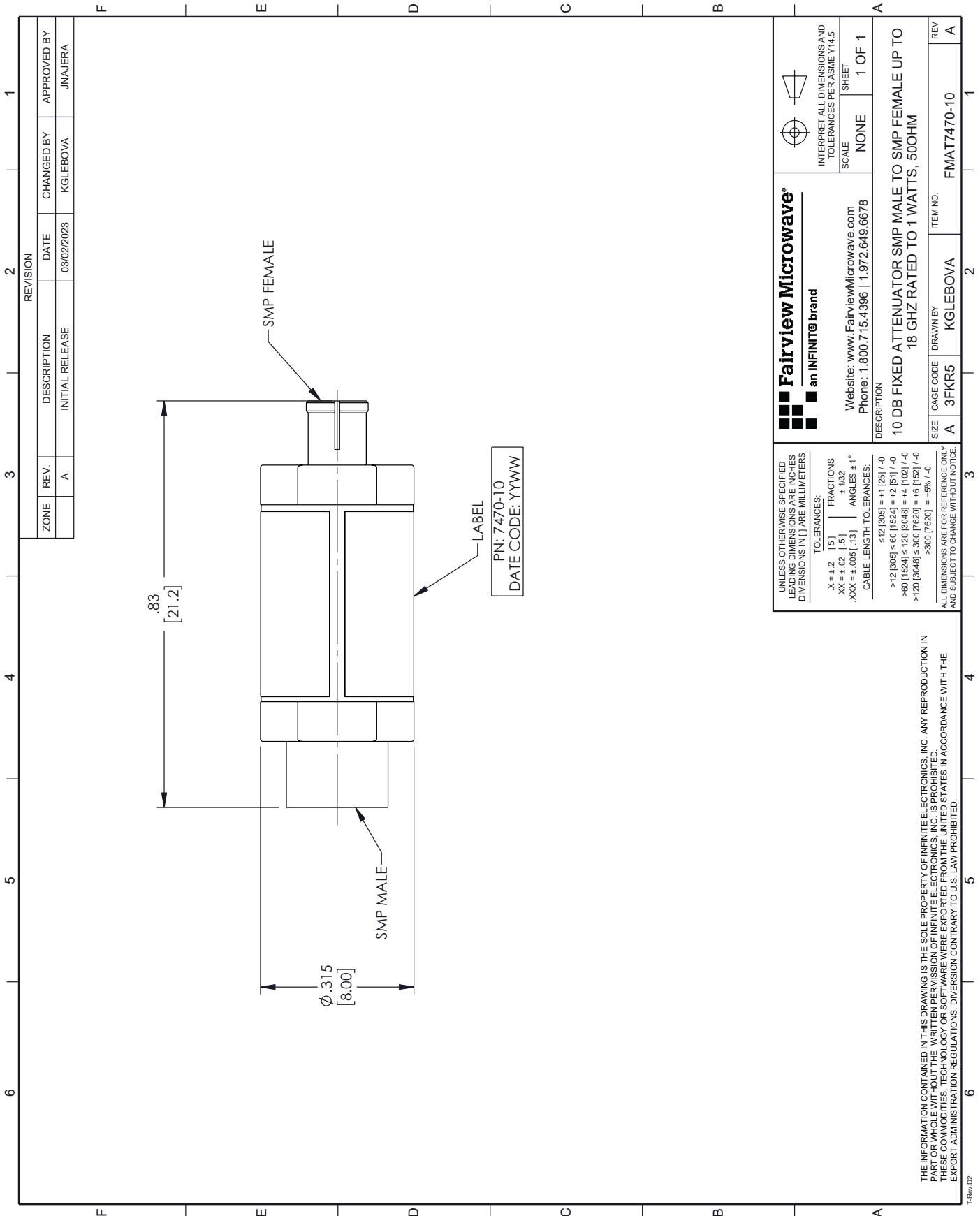
For additional information on this product, please click the following link: 10 dB Fixed Attenuator SMP Male (Plug) to SMP Female (Jack) Up to 18 GHz Rated to 1 Watt, Stainless Steel Body, 1.35:1 VSWR FMAT7470-10

URL: https://www.fairviewmicrowave.com/10db-fixed-attenuator-male-female-1-watt-fmat7470-10-p.aspx

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FMAT7470-10 CAD Drawing

10 dB Fixed Attenuator SMP Male (Plug) to SMP Female (Jack) Up to
18 GHz Rated to 1 Watt, Stainless Steel Body, 1.35:1 VSWR

SMP FEMALE

.83
[21.2]

LABEL

PN: 7470-10
DATE CODE: YYWW

SMP MALE

Ø.315
[8.00]

Revision

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	03/02/2023	KGLEBOVA	JNAJERA

Fairview Microwave®
an INFINIT® brand

Website: www.FairviewMicrowave.com
Phone: 1.800.715.4396 | 1.972.649.6678

DESCRIPTION
10 DB FIXED ATTENUATOR SMP MALE TO SMP FEMALE UP TO
18 GHZ RATED TO 1 WATTS, 50OHM

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	KGLEBOVA	FMAT7470-10	A

INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5

SCALE	SHEET
NONE	1 OF 1

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

TOLERANCES:
.X = ± .2   [5]   FRACTIONS
.XX = ± .02 [.5]   ± 1/32
.XXX = ± .005 [.13]   ANGLES ± 1°

CABLE LENGTH TOLERANCES:
≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

T-Rev_D2

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