

## 20 dB Fixed Attenuator QMA Male (Plug) to QMA Female (Jack) Up to 6 GHz Rated to 1 Watt,



### FMAP1002-20

#### Features

- Bidirectional
- DC to 6 GHz Frequency Range
- Attenuation 20 ± 0.5 dB
- Max Power 2 Watts (CW)
- VSWR < 1.25:2

#### 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 FMAP1002-20 is a 20 dB Fixed Attenuator that operates from DC to 6 GHz and is rated to 1 Watt. The versatile coaxial package uses QMA male to QMA female connectors.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
Input Power, CW			1	Watt
Input Power, Peak			100	Watts
1 μs, 1%				

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2	2 to 6				GHz
VSWR, Max	1.2:1	1.3:1				
Attenuation Accuracy, Typ	0.7	0.7				dB

#### Mechanical Specifications

##### Size

Length	0 in [0 mm]
Width/Diameter	0 in [0 mm]
Height	0 in [0 mm]
Weight	0.0195 lbs [8.85 g]

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Configuration	
Design	Fixed
Package Style	Connectorized

Connectors

Description	Connector 1	Connector 2
Type	QMA Male	QMA Female

Environmental Specifications

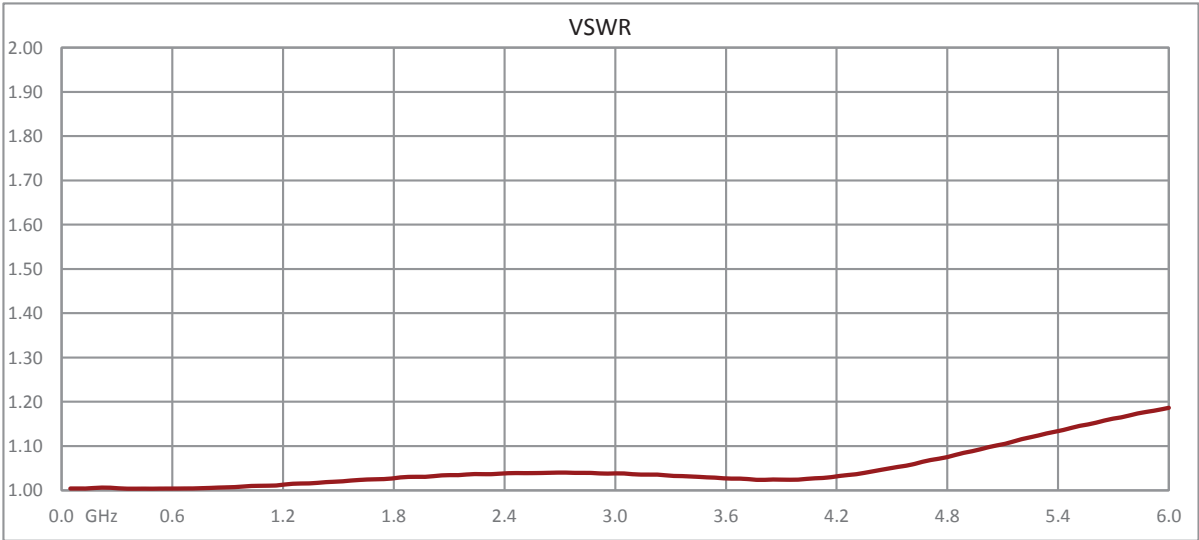
Temperature	
Operating Range	-40 to +85 deg C
Storage Range	-40 to +85 deg C

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

Plotted and Other Data

Notes:

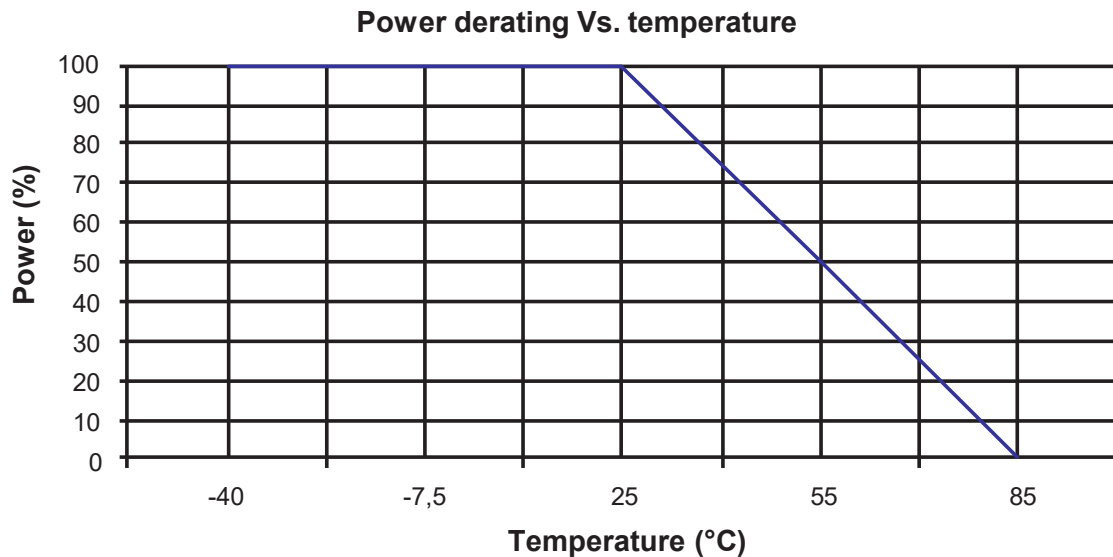
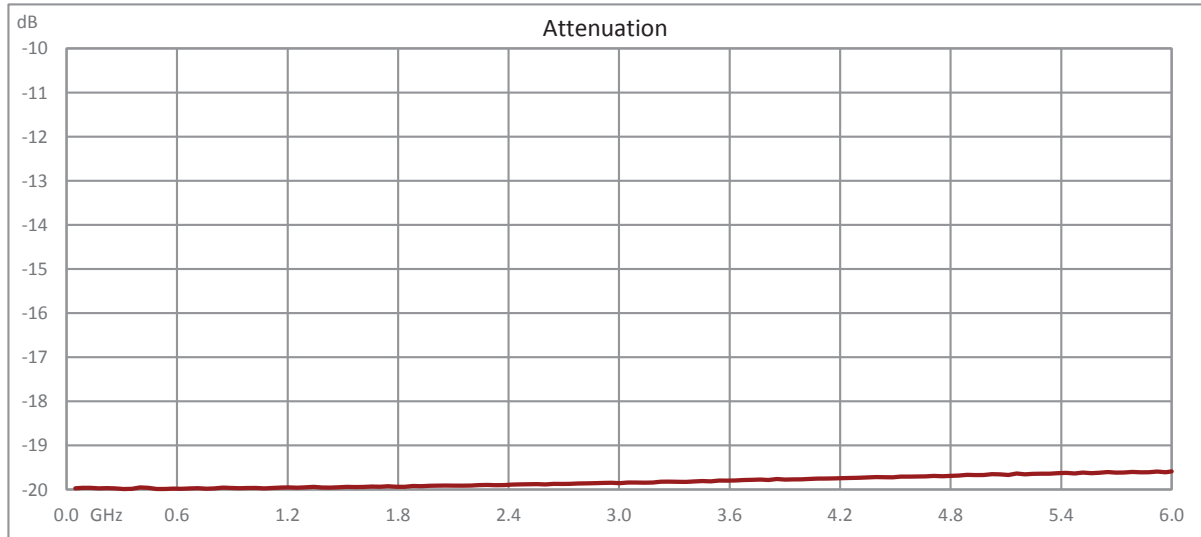
Typical Performance Data



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20 dB Fixed Attenuator QMA Male (Plug) to QMA Female (Jack) Up to 6 GHz Rated to 1 Watt, 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.

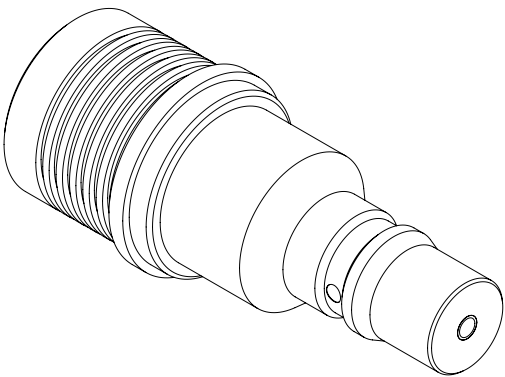
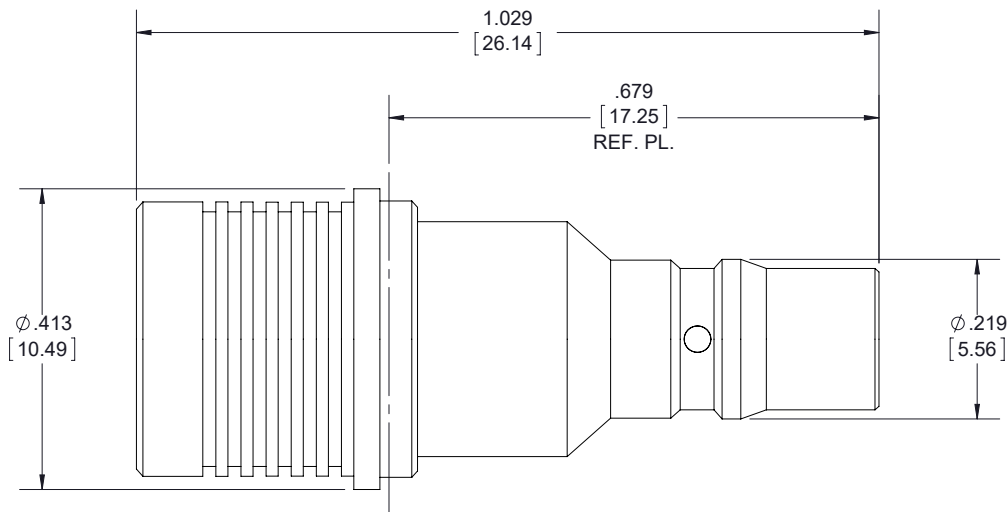
For additional information on this product, please click the following link: [20 dB Fixed Attenuator QMA Male \(Plug\) to QMA Female \(Jack\) Up to 6 GHz Rated to 1 Watt, FMAP1002-20](https://www.fairviewmicrowave.com/20db-fixed-attenuator-qma-male-qma-female-1-watt-fmap1002-20-p.aspx)

URL: <https://www.fairviewmicrowave.com/20db-fixed-attenuator-qma-male-qma-female-1-watt-fmap1002-20-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

FMAP1002-20 CAD Drawing

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STANDARD TOLERANCES

.X  $\pm 0.2$   
.XX  $\pm 0.01$   
.XXX  $\pm 0.005$

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC.

ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM

NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].

TITLE

DWG NO

FMAP1002-20

CAGE CODE

3FKR5

CAD FILE 083017

SHEET 1 OF 1

SCALE N/A

SIZE A

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