0 to 70 dB Step Attenuator With a 10 dB Step BNC

Female Connectors Rated Up To 2.2 GHz and

- 10 dB steps from 0 to 70 dB Attenuation
- Rotary Dial Control
- ±0.5 dB or 3% Attenuation Accuracy

Applications

Features

Instrumentation

FMAT1022

Precision Measurements

-20°C to +80°C Operating Temperature

BNC Female Connectors

- Prototyping and Characterization
- Production Systems

Description

The FMAT1022 is a Step Attenuator that has 70 dB of total attenuation with 10 dB step size and rotary dial design across a frequency range from DC to 2.2 GHz. The design is tried and true technology that offers exceptional performance characteristics that include 0.5 dB maximum insertion loss, and a maximum VSWR of 1.4:1 at 2.2 GHz. The design also features excellent attenuation accuracy with ±0.4 dB typical at 2.2 GHz. The Chem film Aluminum alloy package has BNC Female connectors, and operates within the temperature range of -20°C to 80°C.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------|---------|-----------------------|---------|--------|
| Frequency Range | DC | | 2.2 | GHz |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | | 0.5 | dB |
| Attenuation Value | | 0 to 70 | | dB |
| Step Size | | 10 | | dB |
| Step Type | | Rotary | | |
| Accuracy Statement | | ±0.5 dB or 3% (Which- | | |
| | | ever is greater) | | |
| Input Power (CW) | | | 2 | Watts |
| Input Power, Peak | | | 1 | kWatts |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|----------------|---------|----------|----|----|----|-------|
| Range | DC to 1 | 1 to 2.2 | | | | GHz |
| Insertion Loss | 0.3 | 0.5 | | | | dB |
| VSWR | 1.2:1 | 1.4:1 | | | | |

2.67 in [67.82 mm] 1.5 in [38.1 mm]

0 in [0 mm] 0.57 lbs [258.55 g]

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Width Height Weight Body Material and Plating

Aluminum, Chem Film

The Right Parts, Right Away

| echanical | Specification |
|-----------|---------------|
| Size | |
| Length | |
| | |





Up to 2 Watts in a Rotary Design

0 to 70 dB Step Attenuator With a 10 dB Step BNC Female Connectors Rated Up To 2.2 GHz and Up to 2 Watts in a Rotary Design

FMAT1022

Connectors

| | Description | | Conne | ector 1 | | C | onnector 2 |
|----------------------|-------------------------------|-------------------|--------------------|---------|-------|------------|------------|
| Туре | | | BNC Female BN | | | INC Female | |
| Environm | ental Specificatio | ons | | | | | |
| Tempe | e rature ting Range | - | -20 to 85 deg C | | | | |
| Complian | ce Certifications (| (see product page | for current docume | nt) | | | |
| Plotted an Notes: | nd Other Data | | | | | | |
| Typical Pe | rformance Data | | | | | | |
| | 3.0 | VSWR | | | | | |
| | 2.8 | | | | | | |
| | 2.6 | | | | | | |
| | 2.4 | | | | | | |
| | 2.2 | | | | | | |
| | 2.0 | | | | | | |
| | 1.8 | | | | | | |
| | 1.6 | | | | | | |
| | 1.4 | | | | | | |
| | 1.2 | | | | | | |
| | 1.0 | | | | | | |
| | 0.0 GHz | 0.3 0.6 | 0.8 | 1.1 | 1.4 1 | 7 | 1.9 2.2 |

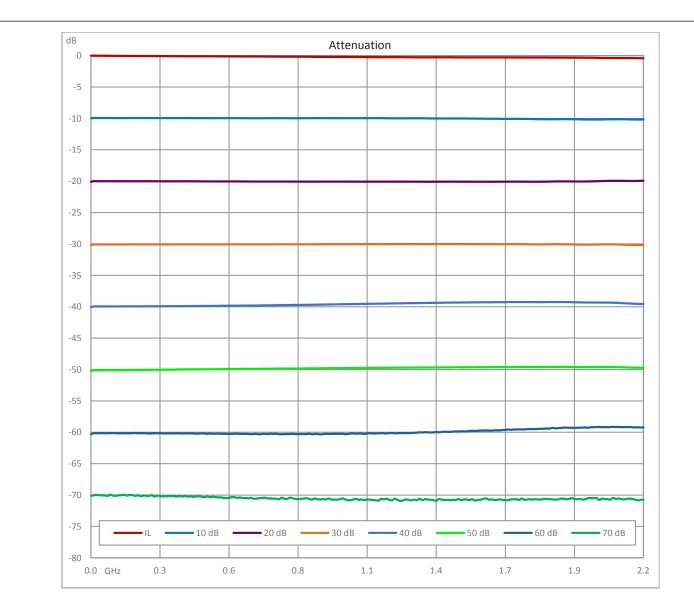




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0 to 70 dB Step Attenuator With a 10 dB Step BNC Female Connectors Rated Up To 2.2 GHz and Up to 2 Watts in a Rotary Design from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf 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: 0 to 70 dB Step Attenuator With a 10 dB Step BNC Female Connectors Rated Up To 2.2 GHz and Up to 2 Watts in a Rotary Design FMAT1022

URL: https://www.fairviewmicrowave.com/70db-step-attenuator-10db-bnc-female-dc-2.2-ghz-2-watts-fmat1022-p.aspx

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FMAT1022 CAD Drawing

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