540

30 dB Fixed Attenuator BNC Male (Plug) to BNC Female (Jack) Up to 1 GHz Rated to 0.5 Watts, Brass Tri-Metal Body, 1.25 VSWR

# SA01B-30

# Features

- DC to 1 GHz Frequency Range
- Attenuation 30±2 dB

# **Applications**

- Instrumentation
- · Precision measurements

- Max Power 0.5 Watt (CW)
- VSWR < 1.25:1</li>
- · 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 SA01B-30 is a 30 dB Fixed Attenuator that operates from DC to 1 GHz and is rated to 0.5 Watts. The versatile coaxial package uses BNC male to BNC female connectors.

# **Electrical Specifications**

| Description          | Minimum | Typical | Maximum | Units |
|----------------------|---------|---------|---------|-------|
| Frequency Range      | DC      |         | 1,000   | MHz   |
| Impedance            |         | 50      |         | Ohms  |
| Nominal Attenuation  |         | 30      |         | dB    |
| Attenuation Accuracy |         | 2       |         | dB    |
| VSWR                 |         |         | 1.25:1  |       |
| Input Power, CW      |         |         | 0.5     | Watts |
| Input Power, Peak    |         |         | 100     | Watts |
| for 25 µsec.         |         |         |         |       |

# **Mechanical Specifications**

| Size                      |                     |
|---------------------------|---------------------|
| Length                    | 2.09 in [53.09 mm]  |
| Width/Diameter            | 0.57 in [14.48 mm]  |
| Height                    | 0 in [0 mm]         |
| Weight                    | 0.062 lbs [28.12 g] |
| Body Material and Plating | Brass, Tri-Metal    |
| Configuration             |                     |
| Decian                    | Fixed               |

Design Package Style Fixed **Connectorized Module**  30 dB Fixed Attenuator BNC Male (Plug) to BNC Female (Jack) Up to 1 GHz Rated to 0.5 Watts, Brass Tri-Metal Body, 1.25 VSWR



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#### Connectors

| Description                   | Connector 1           | Connector 2           |  |
|-------------------------------|-----------------------|-----------------------|--|
| Туре                          | BNC Male              | BNC Female            |  |
| Contact Material and Plating  | Phosphor Bronze, Gold | Phosphor Bronze, Gold |  |
| Contact Plating Specification | 4 μ-in min.           | 4 μ-in min.           |  |
| Dielectric Type               | Teflon                | Teflon                |  |
| Body Material and Plating     | Brass, Tri-Metal      | Brass, Tri-Metal      |  |
| Body Plating Specification    | 100 μ-in min.         | 100 µ-in min.         |  |
|                               |                       |                       |  |

### **Environmental Specifications**

Temperature

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

#### **Typical Performance Data**

30 dB Fixed Attenuator BNC Male (Plug) to BNC Female (Jack) Up to 1 GHz Rated to 0.5 Watts, Brass Tri-Metal Body, 1.25 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.

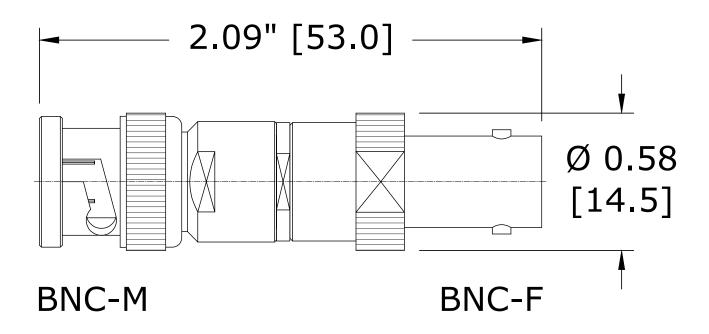
For additional information on this product, please click the following link: 30 dB Fixed Attenuator BNC Male (Plug) to BNC Female (Jack) Up to 1 GHz Rated to 0.5 Watts, Brass Tri-Metal Body, 1.25 VSWR SA01B-30

### URL: https://www.fairviewmicrowave.com/30db-fixed-attenuator-bnc-male-bnc-female-0.5-watts-sa01b-30-p.aspx

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# SA01B-30 CAD Drawing

30 dB Fixed Attenuator BNC Male (Plug) to BNC Female (Jack) Up to 1 GHz Rated to 0.5 Watts, Brass Tri-Metal Body, 1.25 VSWR



| FAIRVIEW MICROWAVE INC. | NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. |       |      | NY TIME.        |        |      |
|-------------------------|---|-------|------|-----------------|--------|------|
| TITLE                   | DWG NO SA01B-30   |       |      | CAGE CODE 3FKR5 |        |      |
|                         | CAD FILE 011415   | SHEET | SCAL | E N/A           | SIZE A | 5568 |