

**30 dB Fixed Attenuator BNC Male To BNC Female Up To 1,000 MHz Rated To 0.5 Watts With Brass Tri-Metal Body**

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 selections and ships them same day. The SA01B-30 is a 30 dB Fixed Attenuator that operates from DC to 1,000 MHz and is rated to 0.5 Watt. The versatile coaxial package uses BNC male to BNC female connectors and is also REACH and RoHS compliant.

**Electrical Specifications**

| Description                       | Min | Typ | Max    | 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<br>for 25 µsec. |     |     | 100    | Watts |

**Mechanical Specifications**

|                           |                      |
|---------------------------|----------------------|
| <b>Size</b>               |                      |
| Length                    | 2.09 in [53.09 mm]   |
| Width/Diameter            | 0.57 in [14.48 mm]   |
| Weight                    | 0.072 lbs [32.66 g]  |
| Body Material and Plating | Brass, Tri-Metal     |
| <b>Configuration</b>      |                      |
| Design                    | Fixed                |
| Package Style             | Connectorized Module |



**Features:**

- DC to 1 GHz Frequency Range
- Attenuation 30±2 dB
- Max Power 0.5 Watt (CW)
- VSWR < 1.25:1

**Applications:**

- Instrumentation
- Precision measurements
- Prototyping and characterization
- Production systems

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**Connectors**

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

**Environmental Specifications**

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant Yes  
 REACH Compliant 12/17/2015

**Plotted and Other Data**

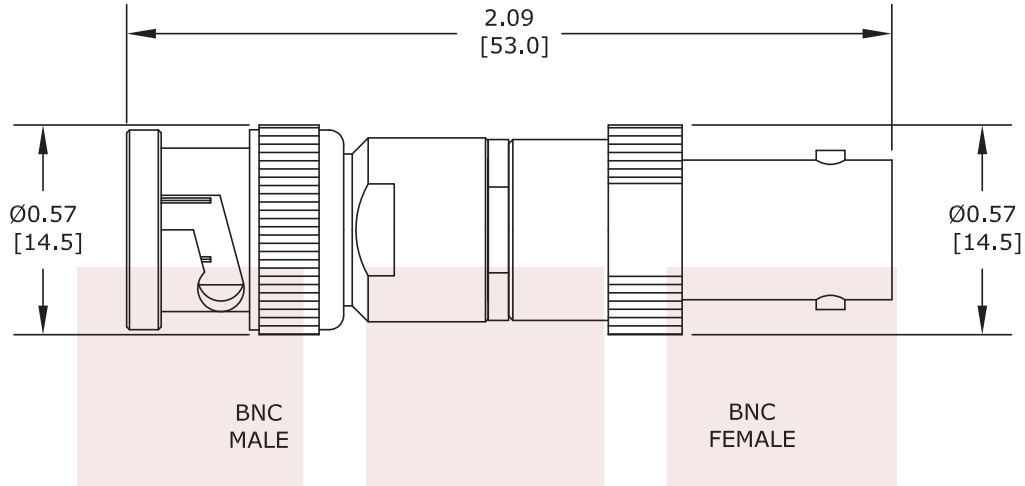
Notes:

30 dB Fixed Attenuator BNC Male To BNC Female Up To 1,000 MHz Rated To 0.5 Watts With Brass Tri-Metal Body 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 Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [30 dB Fixed Attenuator BNC Male To BNC Female Up To 1,000 MHz Rated To 0.5 Watts With Brass Tri-Metal Body SA01B-30](#)

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

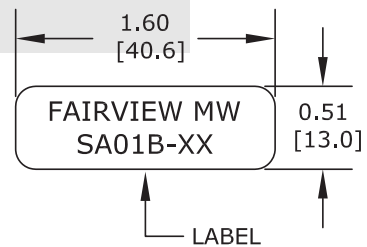
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| P/N      | ATTEN. |
|----------|--------|
| SA01B-01 | 1 dB   |
| SA01B-02 | 2 dB   |
| SA01B-03 | 3 dB   |
| SA01B-04 | 4 dB   |
| SA01B-05 | 5 dB   |
| SA01B-06 | 6 dB   |
| SA01B-10 | 10 dB  |
| SA01B-15 | 15 dB  |
| SA01B-20 | 20 dB  |
| SA01B-30 | 30 dB  |

| GENERAL TOLERANCES |         |
|--------------------|---------|
| 0.000-0.197        | ±0.0020 |
| 0.197-0.394        | ±0.0027 |
| 0.394-0.787        | ±0.0039 |
| 0.787-1.181        | ±0.0059 |
| >1.181             | ±0.078  |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



|   |        |   |       |                    |             |
|---|--------|---|-------|--------------------|-------------|
| <b>FAIRVIEW MICROWAVE INC.</b><br>ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM   |        | 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]. |       |                    |             |
| TITLE<br>30 dB Fixed Attenuator BNC Male To BNC Female Up To 1,000 MHz Rated To 0.5 Watts With Brass Tri-Metal Body |        | DWG NO<br>SA01B   |       | CAGE CODE<br>3FKR5 |             |
| CAD FILE  | 031516 | SHEET   | SCALE | N/A                | SIZE A 3045 |