

## 6 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 26 GHz Rated to 2 Watts, Passivated Stainless Steel Body, 1.4 VSWR



### SA26B-06

#### Features

- DC to 26 GHz Frequency Range
- Attenuation 6±0.75 dB
- Max Power 2 Watts (CW)
- VSWR < 1.4:1

#### 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 SA26B-06 is a 6 dB Fixed Attenuator that operates from DC to 26 GHz and is rated to 2 Watts. The versatile coaxial package uses SMA male to SMA female connectors.

#### Electrical Specifications

| Description                        | Minimum | Typical | Maximum | Units |
|------------------------------------|---------|---------|---------|-------|
| Frequency Range                    | DC      |         | 26      | GHz   |
| Impedance                          |         | 50      |         | Ohms  |
| Nominal Attenuation                |         | 6       |         | dB    |
| Attenuation Accuracy               |         | 0.75    |         | dB    |
| VSWR                               |         |         | 1.4:1   |       |
| Input Power, CW                    |         |         | 2       | Watts |
| derated linearly to 0.5W at +125°C |         |         |         |       |
| Input Power, Peak                  |         |         | 250     | Watts |
| 5µs pulse, 0.1% duty cycle         |         |         |         |       |

#### Specifications by Frequency

| Description     | F1      | F2      | F3       | F4 | F5 | Units |
|-----------------|---------|---------|----------|----|----|-------|
| Frequency Range | DC to 6 | 6 to 18 | 18 to 26 |    |    | GHz   |
| VSWR, Max       | 1.15:1  | 1.3:1   | 1.4:1    |    |    |       |

#### Mechanical Specifications

##### Size

|                |                     |
|----------------|---------------------|
| Length         | 0.86 in [21.84 mm]  |
| Width/Diameter | 0.312 in [7.92 mm]  |
| Height         | 0 in [0 mm]         |
| Weight         | 0.0149 lbs [6.76 g] |

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SA26B-06

|                           |                            |
|---------------------------|----------------------------|
| Body Material and Plating | Passivated Stainless Steel |
| Configuration             |                            |
| Design                    | Fixed                      |
| Package Style             | Connectorized Module       |

Connectors

| Description                  | Connector 1                | Connector 2                |
|------------------------------|----------------------------|----------------------------|
| Type                         | SMA Male                   | SMA Female                 |
| Connector Specification      | MIL-STD-348                | MIL-STD-348                |
| Contact Material and Plating | Beryllium Copper, Gold     | Beryllium Copper, Gold     |
| Dielectric Type              | Teflon                     | Teflon                     |
| Torque                       | 8 in-lbs 0.9 Nm            |                            |
| Body Material and Plating    | Passivated Stainless Steel | Passivated Stainless Steel |

Mechanical Specification Notes:  
Materials and finishes comply with MIL-DTL-3933.

Environmental Specifications

|                                                              |                   |
|--------------------------------------------------------------|-------------------|
| Temperature                                                  |                   |
| Operating Range                                              | -65 to +125 deg C |
| Environmental Specification Notes:                           |                   |
| Designed to meet environmental requirements of MIL-DTL-3933. |                   |

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

Plotted and Other Data

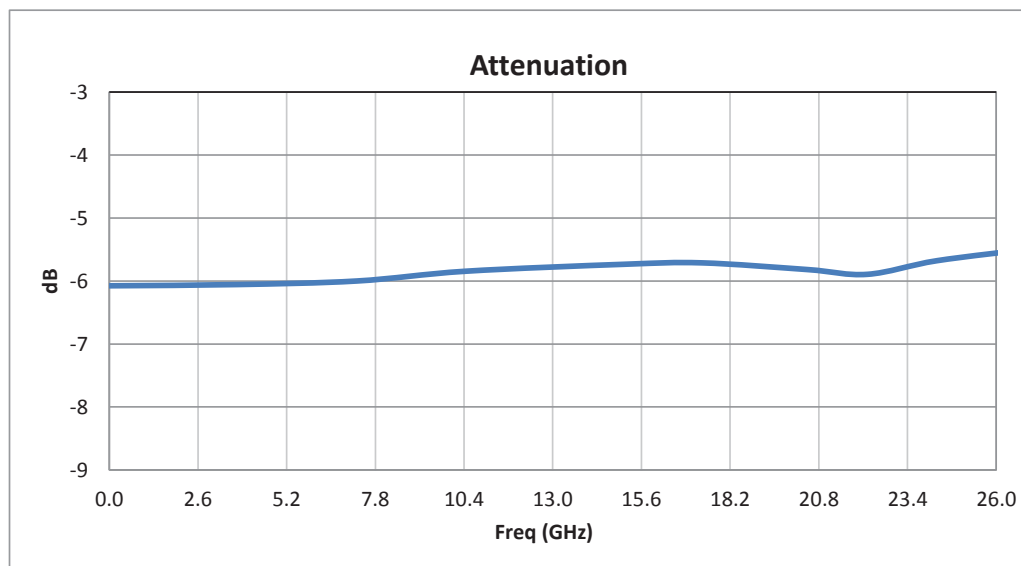
Notes:

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## SA26B-06

### Typical Performance Data



6 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 26 GHz Rated to 2 Watts, Passivated Stainless Steel Body, 1.4 VSWR



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6 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 26 GHz Rated to 2 Watts, Passivated Stainless Steel Body, 1.4 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.

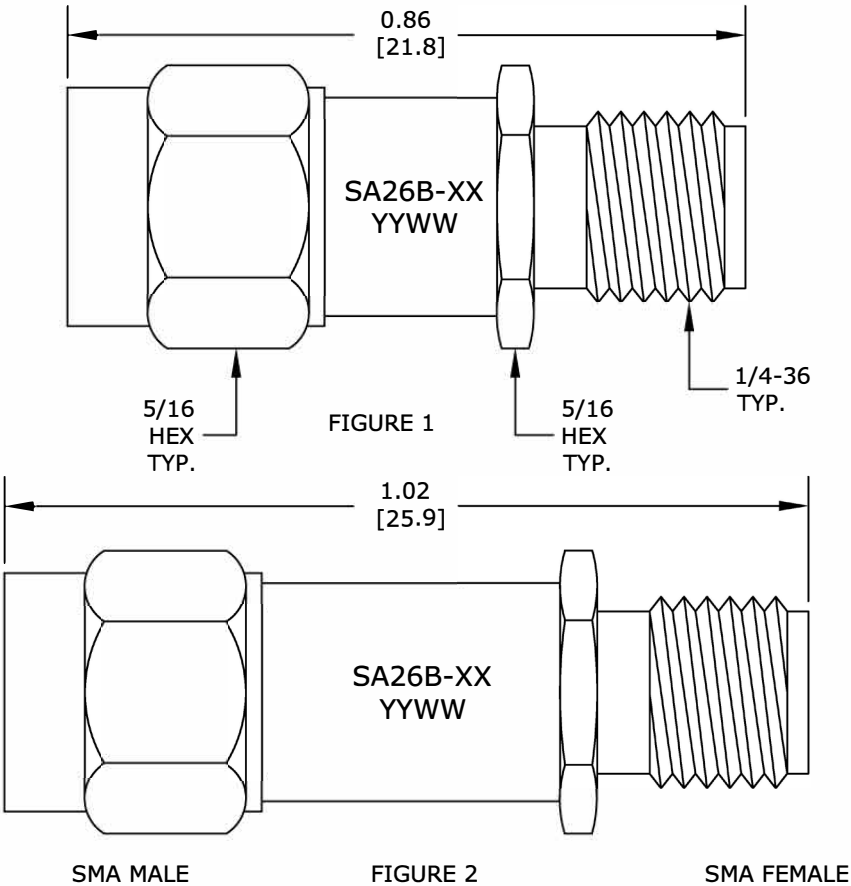
For additional information on this product, please click the following link: [6 dB Fixed Attenuator SMA Male \(Plug\) to SMA Female \(Jack\) Up to 26 GHz Rated to 2 Watts, Passivated Stainless Steel Body, 1.4 VSWR SA26B-06](https://www.fairviewmicrowave.com/6db-fixed-attenuator-sma-male-sma-female-2-watts-sa26b-06-p.aspx)

URL: <https://www.fairviewmicrowave.com/6db-fixed-attenuator-sma-male-sma-female-2-watts-sa26b-06-p.aspx>

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SA26B-06 CAD Drawing

6 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 26 GHz  
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| STANDARD TOLERANCES |        |
|---------------------|--------|
| .X                  | ±0.03  |
| .XX                 | ±0.010 |
| .XXX                | ±0.005 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

| P/N      | ATTEN. | FIGURE | P/N      | ATTEN. | FIGURE |
|----------|--------|--------|----------|--------|--------|
| SA26B-00 | 0 dB   | 1      | SA26B-08 | 8 dB   | 1      |
| SA26B-01 | 1 dB   |        | SA26B-09 | 9 dB   |        |
| SA26B-02 | 2 dB   |        | SA26B-10 | 10 dB  |        |
| SA26B-03 | 3 dB   |        | SA26B-12 | 12 dB  |        |
| SA26B-04 | 4 dB   |        | SA26B-15 | 15 dB  |        |
| SA26B-05 | 5 dB   |        | SA26B-20 | 20 dB  | 2      |
| SA26B-06 | 6 dB   |        | SA26B-30 | 30 dB  |        |
| SA26B-07 | 7 dB   |        |          |        |        |

|                           |  |                                                                                                                                                                                     |        |           |                       |
|---------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|-----------------------|
| 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]. |        |           |                       |
| WWW.FAIRVIEWMICROWAVE.COM |  | DWG NO                                                                                                                                                                              |        | CAGE CODE |                       |
| TITLE                     |  | SA26B                                                                                                                                                                               |        | 3FKR5     |                       |
|                           |  | CAD FILE                                                                                                                                                                            | 031616 | SHEET     | SCALE N/A SIZE A 3045 |