

30 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 18 GHz Rated to 5 Watts, Passivated Stainless Steel Body, 1.4 VSWR



SA18N5W-30

Features

Applications

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 SA18N5W-30 is a 30 dB Fixed Attenuator that operates from DC to 18 GHz and is rated to 5 Watts. The versatile coaxial package uses type N male to type N female connectors.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---------------------|---------|---------|---------|--------|
| Frequency Range | DC | | 18 | GHz |
| Impedance | | 50 | | Ohms |
| Nominal Attenuation | | 30 | | dB |
| VSWR | | | 1.4:1 | |
| Input Power, CW | | | 5 | Watts |
| Input Power, Peak | | | 1 | kWatts |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------|---------|-----------|------------|----|----|-------|
| Frequency Range | DC to 6 | 6 to 12.4 | 12.4 to 18 | | | GHz |
| VSWR, Max | 1.2:1 | 1.25:1 | 1.4:1 | | | |

Mechanical Specifications

Size

| | |
|---------------------------|----------------------------|
| Length | 2.25 in [57.15 mm] |
| Width/Diameter | 0.83 in [21.08 mm] |
| Height | 0 in [0 mm] |
| Weight | 0.16402 lbs [74.4 g] |
| Body Material and Plating | Passivated Stainless Steel |

Configuration

| | |
|--------|-------|
| Design | Fixed |
|--------|-------|

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Connectors

| Description | Connector 1 | Connector 2 |
|--------------------------------------|-----------------------------|------------------------|
| Type | N Male | N Female |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Outer Conductor Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Body Material and Plating | Stainless Steel, Passivated | |

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data

30 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 18 GHz Rated to 5 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: [30 dB Fixed Attenuator N Male \(Plug\) to N Female \(Jack\) Up to 18 GHz Rated to 5 Watts, Passivated Stainless Steel Body, 1.4 VSWR SA18N5W-30](#)

URL: <https://www.fairviewmicrowave.com/30db-fixed-attenuator-n-male-n-female-5-watts-sa18n5w-30-p.aspx>

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