



## SA6510-30

#### **Features**

- · DC to 65 GHz Frequency Range
- Attenuation 30±5 dB

### **Applications**

- Instrumentation
- · Precision measurements

- Max Power 1 Watt (CW)
- VSWR < 1.65:1</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 SA6510-30 is a 30 dB Fixed Attenuator that operates from DC to 65 GHz and is rated to 1 Watt. The versatile coaxial package uses 1.85mm male to 1.85mm female connectors.

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		65	GHz
Impedance		50		Ohms
Nominal Attenuation		30		dB
VSWR			1.65:1	
Input Power, CW			1	Watt
derated linearly to 0.1W at +100°C				

### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 26.5	26.5 to 40	40 to 60	60 to 65		GHz
VSWR, Max	1.35:1	1.55:1	1.65:1	1.65:1		
Attenuation Accuracy, Typ	1.25	1.5	2	5		dB

### **Mechanical Specifications**

Size

Length Width/Diameter Height

Weight Body Material and Plating 0.88 in [22.35 mm] 0.312 in [7.92 mm] 0 in [0 mm] 0.0167 lbs [7.57 g]

Passivated Stainless Steel







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Configuration

Design

Package Style

Fixed

Connectorized Module

#### **Connectors**

Description	Connector 1	Connector 2		
Туре	1.85mm Male	1.85mm Female		
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Contact Plating Specification	MIL-PRF-39012	MIL-PRF-39012		
Dielectric Type	Teflon	Teflon		
Coupling Nut Material and Plating	Passivated Stainless Steel			
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel		

# **Environmental Specifications**

**Temperature** 

Operating Range

-55 to +100 deg C

Compliance Certifications (see product page for current document)

## **Plotted and Other Data**

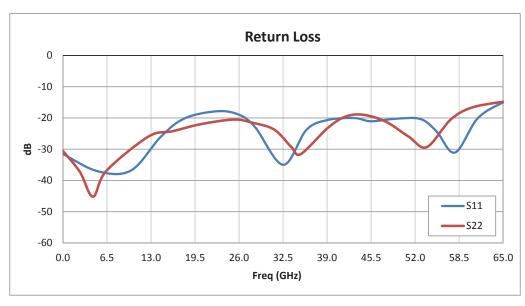
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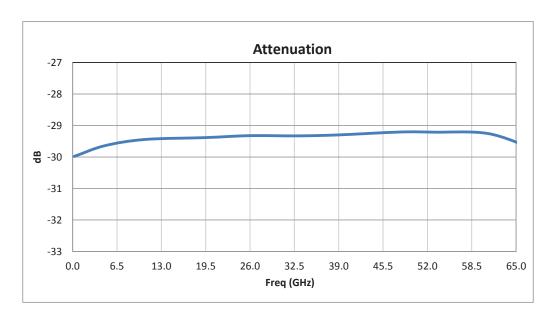




# SA6510-30

### **Typical Performance Data**











### SA6510-30

30 dB Fixed Attenuator 1.85mm Male (Plug) to 1.85mm Female (Jack) Up to 65 GHz Rated to 1 Watt, Passivated Stainless Steel Body, 1.65 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 1.85mm Male (Plug) to 1.85mm Female (Jack) Up to 65 GHz Rated to 1 Watt, Passivated Stainless Steel Body, 1.65 VSWR SA6510-30

URL: https://www.fairviewmicrowave.com/30db-fixed-attenuator-1.85mm-male-1.85mm-female-1-watt-sa6510-30-p.

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# SA6510-30 CAD Drawing

30 dB Fixed Attenuator 1.85mm Male (Plug) to 1.85mm Female (Jack) Up to 65 GHz Rated to 1 Watt, Passivated Stainless Steel Body, 1.65 VSWR

