

SA6510-08 DATA SHEET

8 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

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 SA6510-08 is an 8 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 and is also REACH and RoHS compliant.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	DC		65	GHz
Impedance		50		Ohms
Nominal Attenuation		8		dB
VSWR			1.65:1	
Input Power, CW derated linearly to 0.1	W at +100°C		1	Watt

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
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		
Atten Accuracy, T	yp 0.75	1	1.5	1.5		dB

Mechanical Specifications

Size

 Length
 0.88 in [22.35 mm]

 Width/Diameter
 0.312 in [7.92 mm]

 Weight
 0.015 lbs [6.8 g]

Body Material and Plating Passivated Stainless Steel

Configuration

Design Fixed

Package Style Connectorized Module



Features:

- DC to 65 GHz Frequency Range
- Attenuation 8±1.5 dB
- Max Power 1 Watt (CW)
- VSWR < 1.65:1

Applications:

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

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Connectors

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

Mechanical Specification Notes:

The connectors use high temperature plastic bead dielectric.

Environmental Specifications

Temperature

Operating Range -55 to +100 deg C Storage Range -55 to +100 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

8 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: 8 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 SA6510-08

URL: https://www.fairviewmicrowave.com/8db-fixed-attenuator-1.85mm-male-1.85mm-female-1-watt-sa6510-08-p. aspx

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