

SA18S100-10 DATA SHEET

10 dB Fixed Attenuator SMA Male to SMA Female Directional Up to 18 GHz Rated to 100 Watts with Black Aluminum Heatsink 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 varieties and ships them same day. The SA18S100-10 is a 10 dB Fixed Attenuator that operates from DC to 18 GHz and is rated to 100 Watts. The versatile coaxial package uses SMA male to SMA female connectors and is also REACH and RoHS compliant. The Black Anodized Aluminum Heatsink body allows for efficient heat dissipation under high power usage conditions.

Electrical Specifications

Min	Тур	Max	Units
DC		18	GHz
	50		Ohms
	10		dB
	±0.75		dB
		1.35:1	
		100	Watts
	DC	DC 50	DC 18 50 10 ±0.75 1.35:1 100

rated at +25°C, derated linearly to 10W at +125°C

Input Power, Peak 1 kWatts 5µs pulse, 2.5% duty cycle

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 8	8 to 12.4	12.4 to 18			GHz
VSWR, Max	1.2:1	1.25:1	1.35:1			

Electrical Specification Notes: Values at +25°C, sea level.

Mechanical Specifications

Size Length Width/Diameter Weight Body Material and Plating

2.5 in [63.5 mm] 0.8185 lbs [371.27 g] Black Anodized Aluminum Heatsink

4.78 in [121.41 mm]

Configuration

Design Fixed, Directional



Features:

- Directional
- DC to 18 GHz Frequency Range
- Attenuation 10dB Typical
- Max Power 100 Watts (CW)
- VSWR < 1.35:1

Applications:

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

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Package Style

Connectorized Module

Connectors

Connector 1	Connector 2	
SMA Male	SMA Female	
MIL-STD-348A	MIL-STD-348A	
Beryllium Copper, Gold	Beryllium Copper, Gold	
Passivated Stainless Steel	Passivated Stainless Steel	
	SMA Male MIL-STD-348A Beryllium Copper, Gold	

Environmental Specifications

Temperature

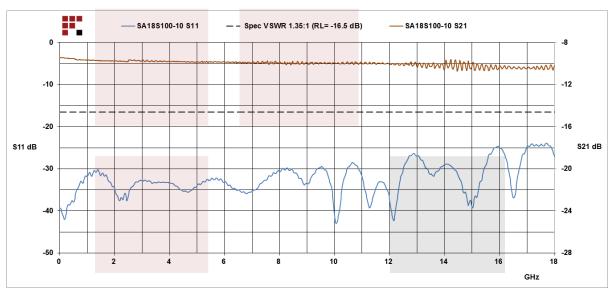
Operating Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data







10 dB Fixed Attenuator SMA Male to SMA Female Directional Up to 18 GHz Rated to 100 Watts with Black Aluminum Heatsink 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

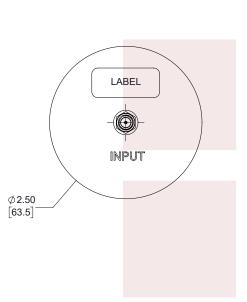
For additional information on this product, please click the following link: 10 dB Fixed Attenuator SMA Male to SMA Female Directional Up to 18 GHz Rated to 100 Watts with Black Aluminum Heatsink Body SA18S100-10

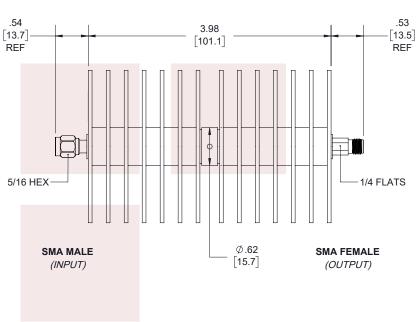
URL: https://www.fairviewmicrowave.com/10db-fixed-attenuator-sma-male-sma-female-100-watts-sa18s100-10-p.aspx











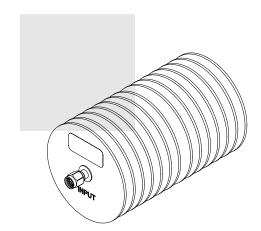
LABEL

FAIRVIEW MICROWAVE SA18S100-10 D/C: YYWW

STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



Fairview Microwave

an INFINIT® brand

TITLE 10 dB Fixed Attenuator SMA Male to SMA Female Directional Up to 18 GHz Rated to 100 Watts with Black Aluminum Heatsink Body

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG NO CAGE CODE 3FKR5 SA18S100-10 CAD FILE 09/26/19 SHEET 1 OF 1 SCALE N/A SIZE A 7361