

SA18L-50 DATA SHEET

50 dB Fixed Attenuator SMA Male To SMA Female Up To 18 GHz Rated To 2 Watts With Passivated Stainless Steel 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 selections and ships them same day. The SA18L-50 is a 50 dB Fixed Attenuator that operates from DC to 18 GHz and is rated to 2 Watts. The versatile coaxial package uses SMA male to SMA female connectors and is also REACH and RoHS compliant.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Nominal Attenuation		50		dB
Attenuation Accuracy		±1.75		dB
VSWR			1.35:1	
Input Power, CW derated linearly to 0.2	W at +125°C		2	Watts
Input Power, Peak 5µs pulse, 0.05% duty	v cycle		500	Watts

Mechanical Specifications

SizeLength1.75 in [44.45 mm]Width/Diameter0.4 in [10.16 mm]Weight0.034 lbs [15.42 g]Body Material and PlatingPassivated Stainless Steel

Configuration

Design Fixed

Package Style Connectorized Module



Features:

- DC to 18 GHz Frequency Range
- Attenuation 50±1.75 dB
- Max Power 2 Watts (CW)
- VSWR < 1.35:1

Applications:

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

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Connectors

Description	Description Connector 1	
Туре	SMA Male	SMA Female
Connection Method	Standard	Standard
Polarity	Standard	Standard
Connector Spec.	MIL-SDT-348	MIL-SDT-348
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	Teflon	Teflon
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

Temperature

Operating Range -65 to +125 deg C

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant Yes

REACH Compliant 12/17/2015

Plotted and Other Data

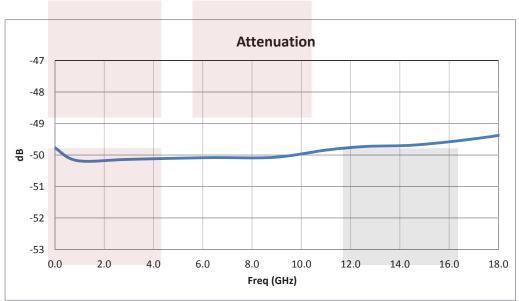
Notes:





Typical Performance Data









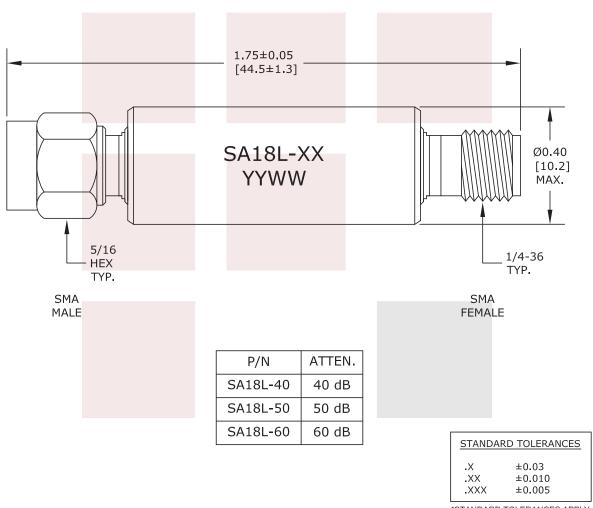
50 dB Fixed Attenuator SMA Male To SMA Female Up To 18 GHz Rated To 2 Watts With Passivated Stainless Steel Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 50 dB Fixed Attenuator SMA Male To SMA Female Up To 18 GHz Rated To 2 Watts With Passivated Stainless Steel Body SA18L-50

URL: http://www.fairviewmicrowave.com/50db-fixed-attenuator-sma-male-sma-female-2-watts-sa18l-50-p.aspx







*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 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].					
TITLE 50 dB Fixed Attenuator SMA Male To SMA Female Up To 18 GHz Rated To 2 Watts With Passivated Stainless Steel Body	DWG NO SA18L			CAGE CODE 3FKR5		
	CAD FILE 031716	SHEET	SCALI	E N/A	SIZE A	3045