

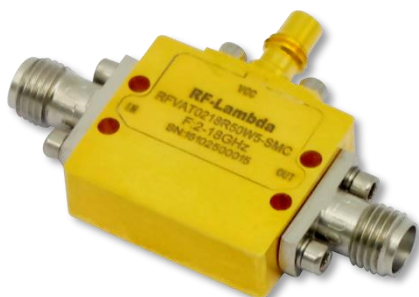


RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFVAT0218R50W5-SMC

Reflective Voltage Controlled Attenuator 2 - 18GHz



Features

- Wide Band Operation 2-18GHz
- Wide Attenuation Range 50dB
- Single Voltage Control
- Low Insertion Loss
- Customization available upon request

Typical Applications

- Wireless Infrastructure
- RF Microwave & VSAT
- Military & Aerospace
- Test Instrument
- Fiber Optics

Electrical Specifications, $T_A = +25^\circ\text{C}$

Description	PN: RFVAT0218R50W5-SMC			
	Reflective Voltage Controlled Attenuator			
Parameters	Min	Typ	Max	Units
Frequency Range	2		18	GHz
Attenuation Range		50		dB
Insertion Loss		1.5	2.0	dB
Insertion Loss Temperature Coefficient		0.003		dB / °C
Input VSWR		1.5	1.8	: 1
Output VSWR		1.5	1.8	: 1
Input Power (CW)			5	w
Peak Power(1us wide, 0.1% Duty Cycle)			75	w
0.1dB Compression Point (Po.1dB)		37		dBm
Input IP3		45		dBm
Switching Speed			2.0	us
Control Voltage	0	10		V
Input Control Current		15		mA
Weight		1.06		Ounces
Impedance		50		Ω
Input / Output Connectors	SMA - Female			
Control Input Connector	SMC – Male			
Finishing	Gold Plating			
Material	Copper			
Sealing	Hermetically Sealed (Optional)			

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Absolute Maximum Ratings

Control Voltage	DC ~ 13V
RF Input power	+37.5dBm

Ordering Information

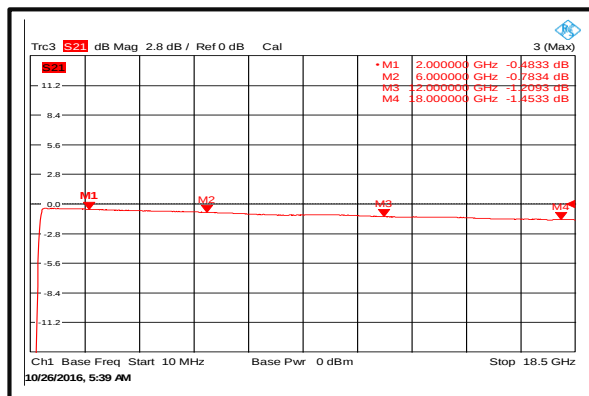
Part No.	ECCN	Description
RFVAT0218R505W-SMC	EAR99	2-18GHz Voltage Control Attenuator

Environmental Specifications

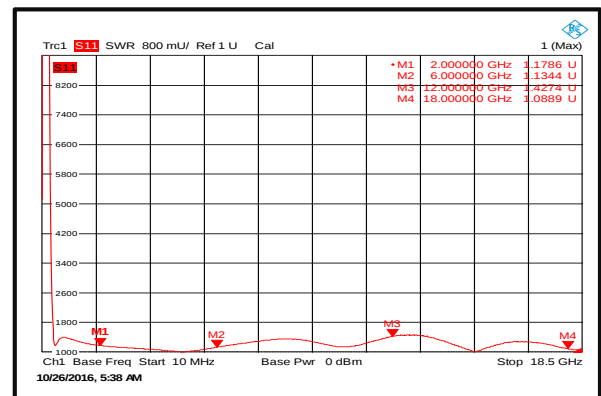
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

Typical Performance Plots

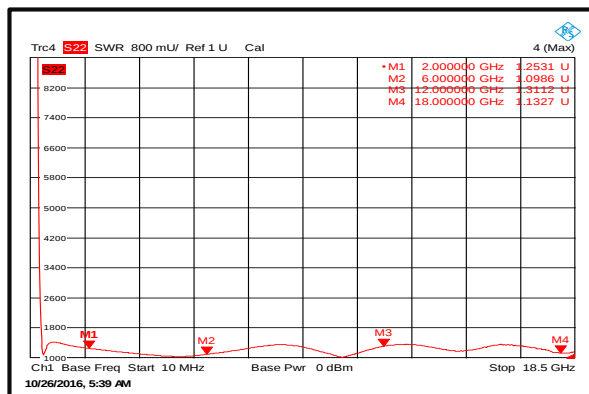
Insertion Loss



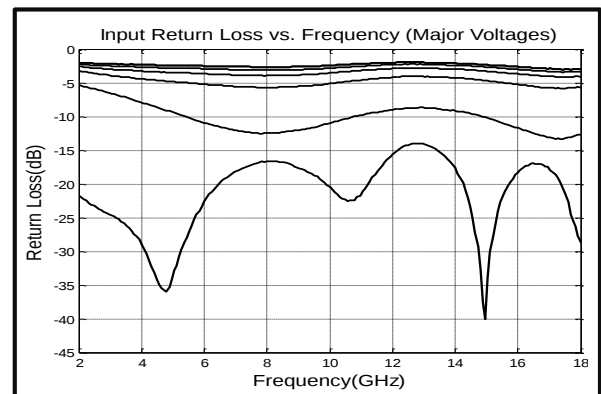
Input VSWR



Output VSWR



Input Return Loss vs. Attenuation





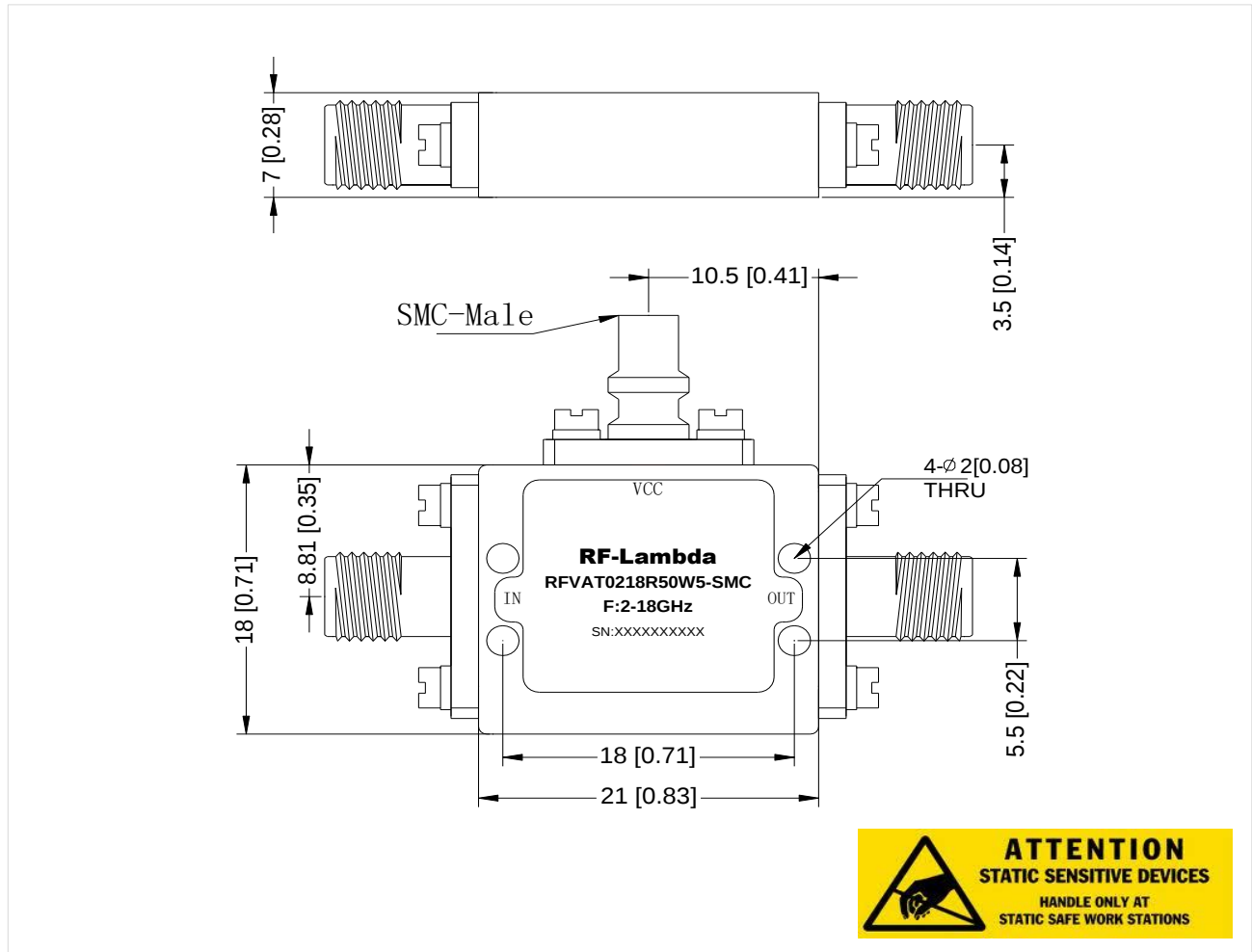
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Outline Drawing:

All Dimensions in mm [inches]



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