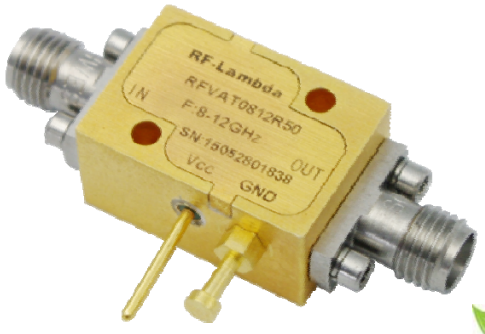
Reflective Voltage Control Attenuator
8 - 12GHz



RoHS Compliant

Features

- Wide Band Operation 8-12GHz
- Wide Attenuation Range 50dB
- Reflective Topology
- Singe Control Operation
- Customization available upon request

Electrical Specifications, T_A = +25° C

Description	PN: RFVAT0812R50			
	Reflective Voltage Attenuator			
Parameters	Min	Typ.	Max	Units
Frequency Range		8~ 12		GHz
Attenuation Range	50			dB
Insertion Loss		1.2	1.5	dB
Insertion Loss Temperature Coefficient		0.01		dB/ °C
Input VSWR		1.3	1.5	: 1
Output VSWR		1.3	1.5	: 1
0.1dB Compression P0.1dB		30		dBm
Input Ip3		43		dBm
Switching Speed			2.5	us
Control Voltage	0		10	V
Weight		1.2		ounces
Impedance		50		Ω
current		15		mA
Input / Output Connectors	SMA-Female			
Finishing	Gold plating			
Material	copper			
Sealing	Hermetically Sealed (optional)			

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Absolute Maximum Ratings

Control Voltage	0 ~ 13V
RF Input power	+30dBm

Ordering Information

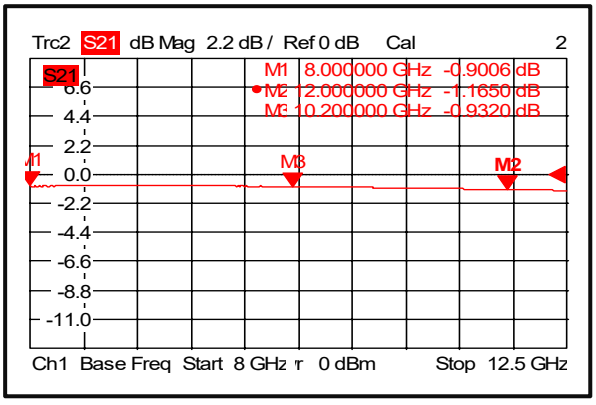
Part No.	ECCN	Description
RFVAT0812R50	EAR99	8-12GHz Voltage Control Attenuator

Environmental Specifications

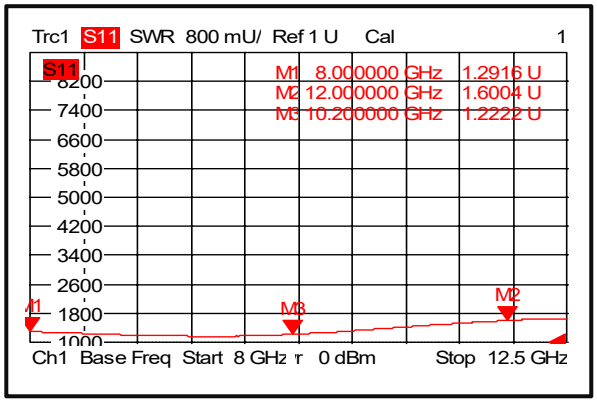
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c,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

Typical Performance Plots

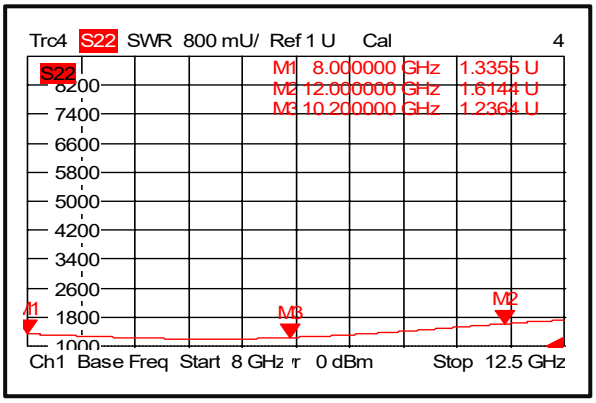
Insertion Loss



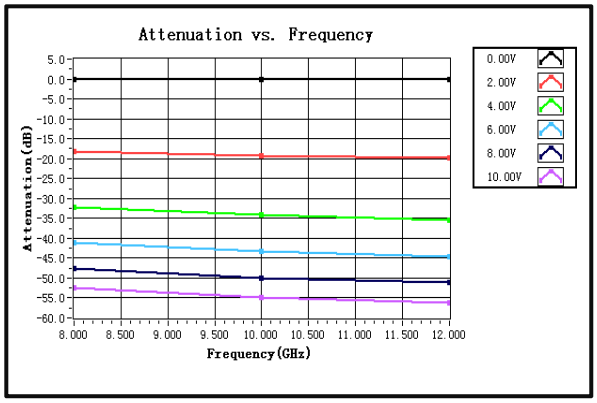
Input VSWR



Output VSWR



Attenuation vs. Frequency



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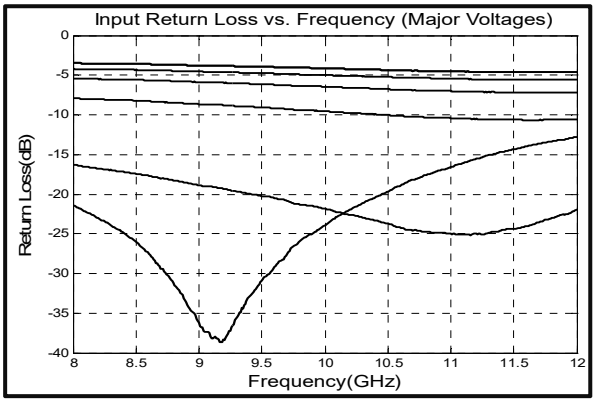
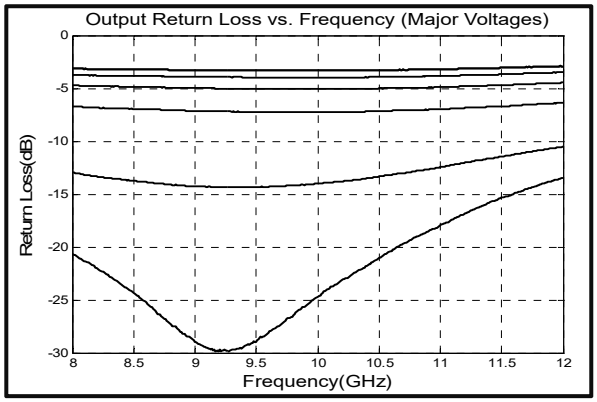
Input Return Loss vs. Frequency

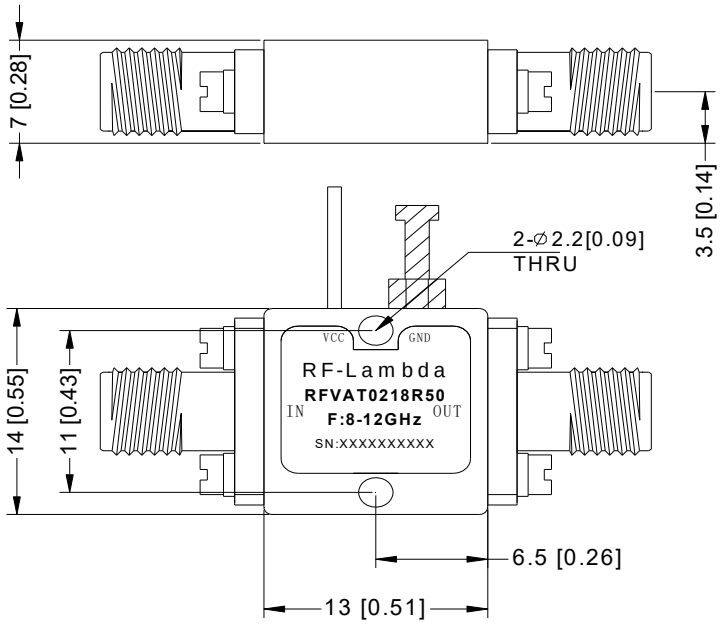


Output Return Loss vs. Frequency



Outline Drawing:

All Dimensions in mm [inches]



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