

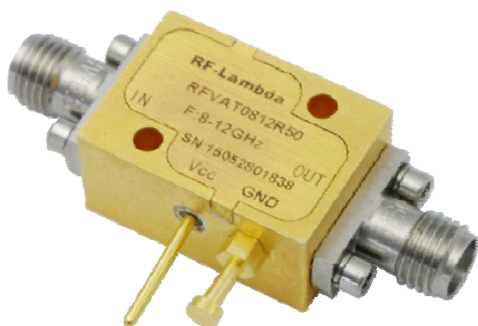


RF-LAMBDA

LEADER OF BROADBAND SOLUTIONS

RFVAT0812R50

Reflective Voltage Control Attenuator 8-12GHz



Features

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

Electrical Specifications, TA = +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
Control Voltage	0		10	V
Input VSWR (@0dB attenuation)		1.3	1.5	ratio
Output VSWR (@0dB attenuation)		1.3	1.5	ratio
Input Power for 1 dB Compression		30		dBm
IM3		35		dBc
Weight	1.2			ounces
Impedance	50			Ω
current	15			mA
Input /Output Connector	SMA-Female/SMA-Female (Standard)			
Finishing	Gold plating			
Material	Aluminum			
Seal	Hermetically Sealed (optional)			

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Absolute Maximum Ratings

Control Voltage	0 ~ 11V
RF Input power	+30dBm
Operating Temperature(°C)	-40 ~ +85
Storage Temperature(°C)	-65 ~ +150

Ordering Information

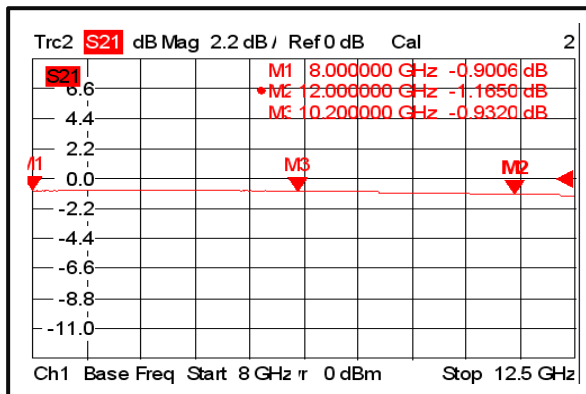
Part No	ECCN	Description
RFVAT0812R50	EAR99	8-12GHz Voltage Control Attenuator

Environment specifications

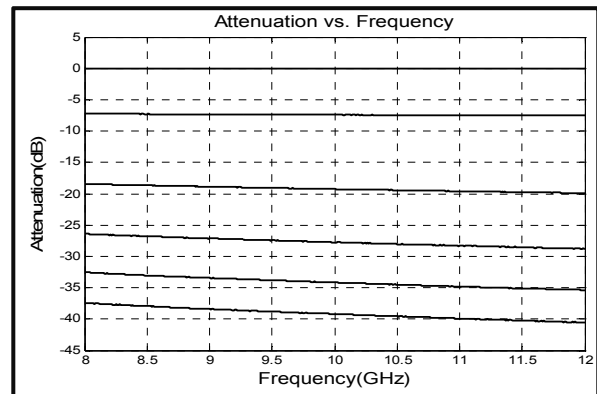
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH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

performance plots

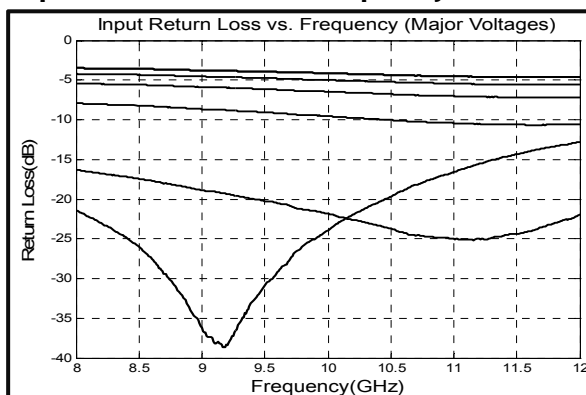
Insertion Loss



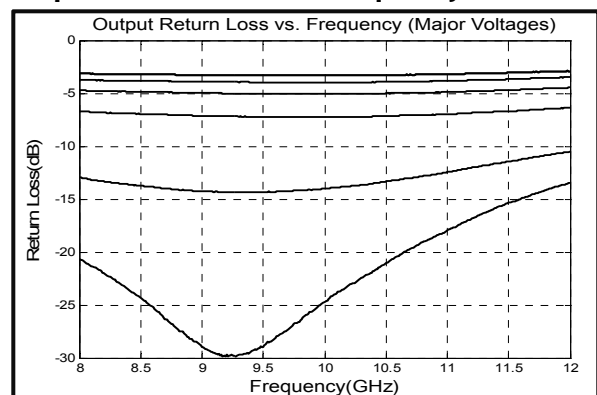
Attenuation vs. Frequency



Input Return Loss vs. Frequency



Output Return Loss vs. Frequency



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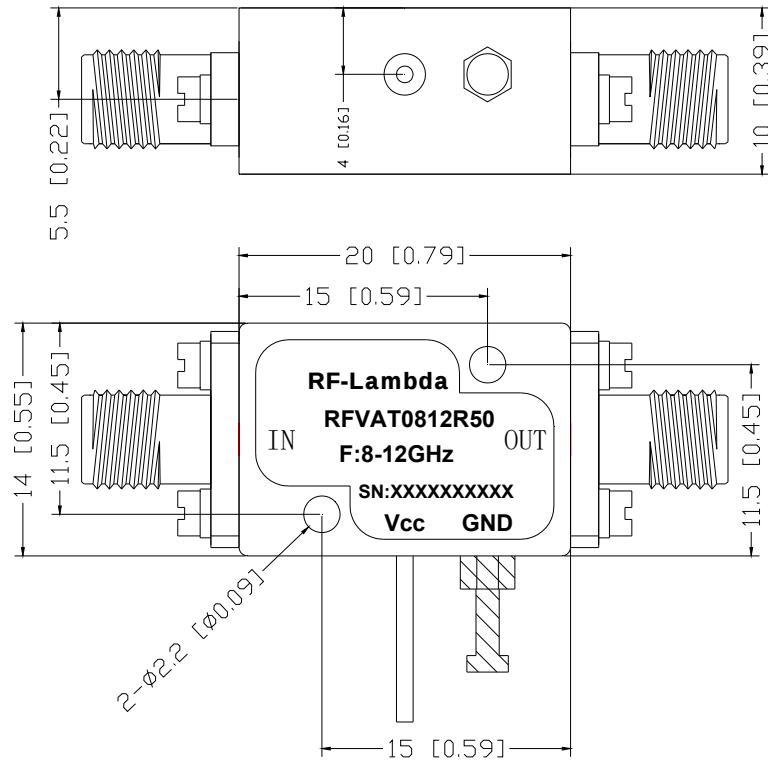
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Outline Drawing:

All Dimensions in mm (inches)



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