



Absorptive Voltage Control Attenuator 8-12GHz



Features

- Wide Band Operation 8-12GHz
- Wide Attenuation Range 30dB
- Absorptive Topology
- Single Control Operation
- Customization available upon request

Absorptive Voltage Control Attenuator 8-12GHz

Electrical Specifications, TA = +25 °C

Description	PN: RFVAT0812A30			
	Absorptive Voltage Attenuator			
Parameters	Min	Typ.	Max	Units
Frequency Range	8		12	GHz
Attenuation Range	30			dB
Insertion Loss		1.9	2.2	dB
Insertion Loss Temperature Coefficient		0.003		dB/ °C
Input VSWR		1.5	1.8	
Output VSWR		1.5	1.8	
Input Power for 0.1 dB Compression	27			dBm
IM3		45		dBc
Switching Speed			2.5	us
Weight	0.8			ounces
Impedance	50			Ω
current	15			mA
Input /Output Connector	SMA-Female (Standard)			
Finishing	Gold plating			
Material	Aluminum			
Seal	Hermetically Sealed (optional)			



Absolute Maximum Ratings

Control Voltage	DC ~ 10V
RF Input power	30dBm
Operating Temperature(°C)	-45 ~ +85
Storage Temperature(°C)	-50 ~ +125

Ordering Information

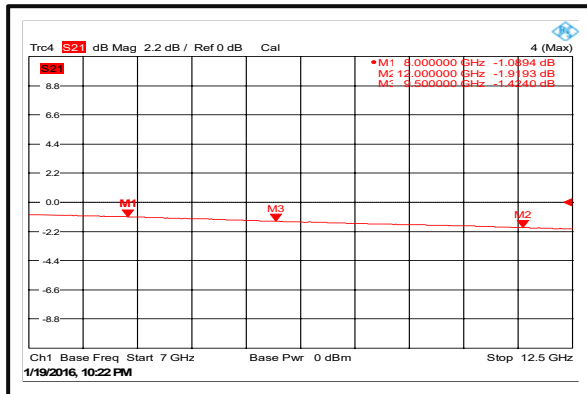
Part No	ECCN	Description
RFVAT0812A30	EAR99	8-12GHz Voltage Control Attenuator

Environment specifications

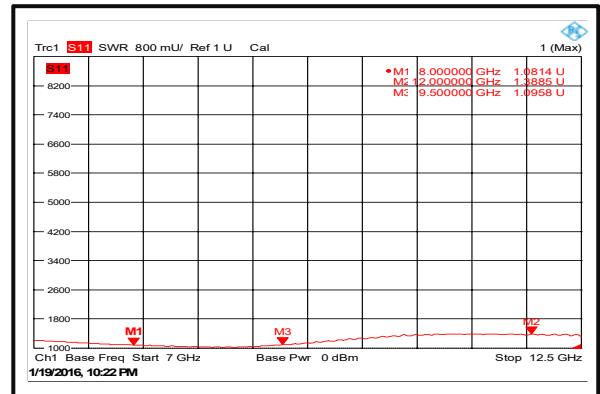
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH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

Typical performance plots

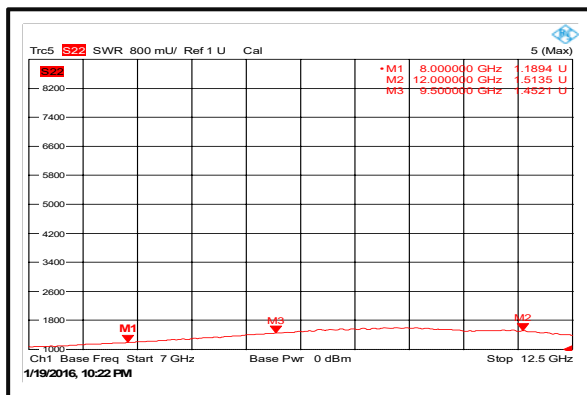
Insertion Loss



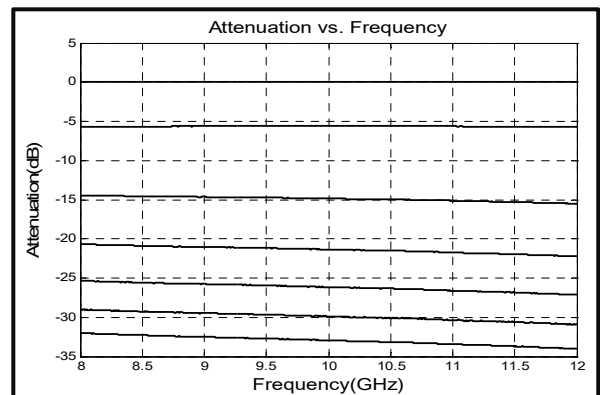
Input VSWR



Output VSWR



Attenuation vs. Frequency



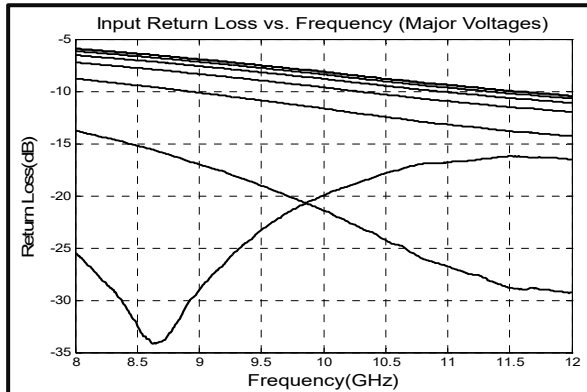


RF-LAMBDA

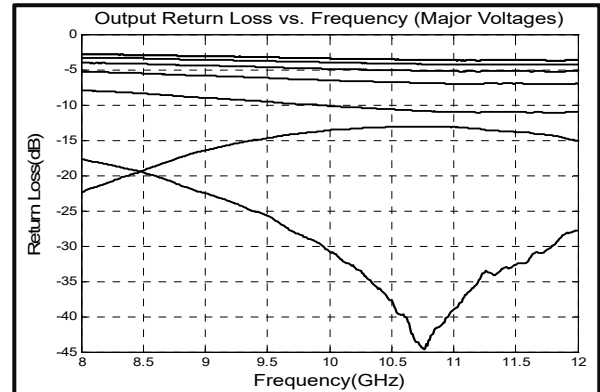
LEADER OF BROADBAND SOLUTIONS

RFVAT0812A30

Input Return Loss vs. Frequency

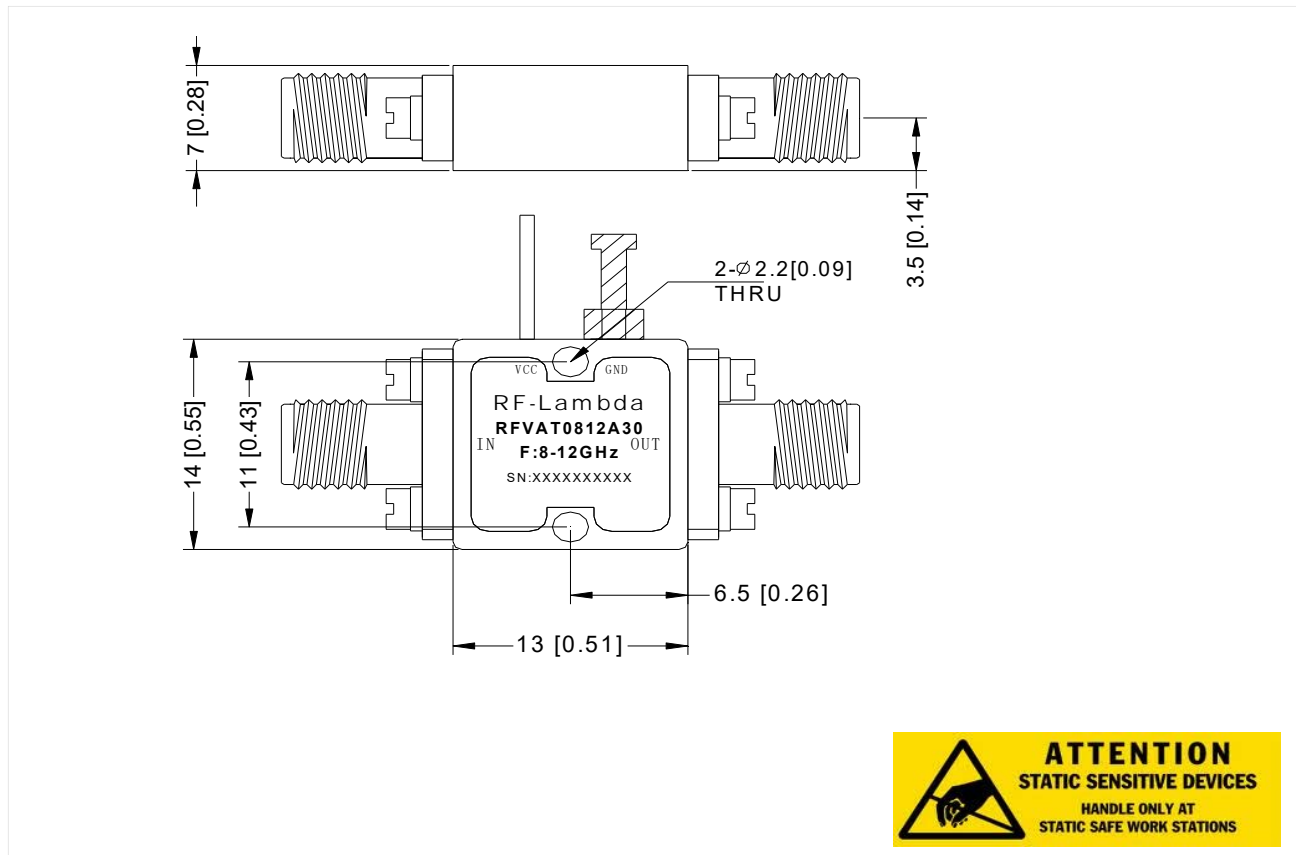


Output Return Loss vs. Frequency



Outline Drawing:

All Dimensions in mm (inches)



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