



Absorptive Voltage Control Attenuator 12 - 18GHz



Features

- Wide Band Operation 12-18GHz
- Wide Attenuation Range 30dB
- Single Control Operation
- Customization available upon request

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

Description	PN: RFVAT1218A30			
	Absorptive Voltage Attenuator			
Parameters	Min	Typ.	Max	Units
Frequency Range	12		18	GHz
Attenuation Range		30		dB
Insertion Loss		1.6	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
0.1dB Compression Point (Po.1dB)		30		dBm
Input Ip3		43		dBm
Switching Speed			2.5	us
Control Voltage	0		10	V
Weight	0.71			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	DC ~ 15V
RF Input power	+30dBm

Ordering Information

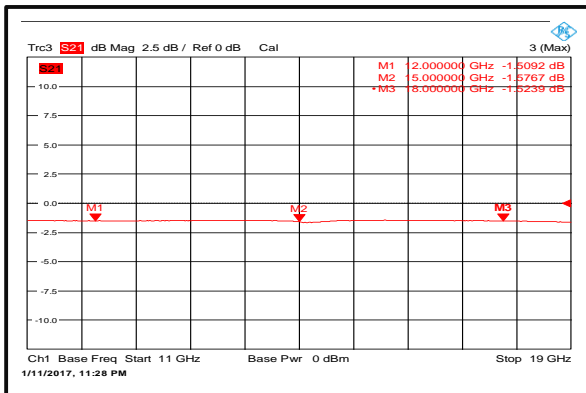
Part No.	ECCN	Description
RFVAT1218A30	EAR99	12-18GHz Voltage Control Attenuator

Environmental Specifications

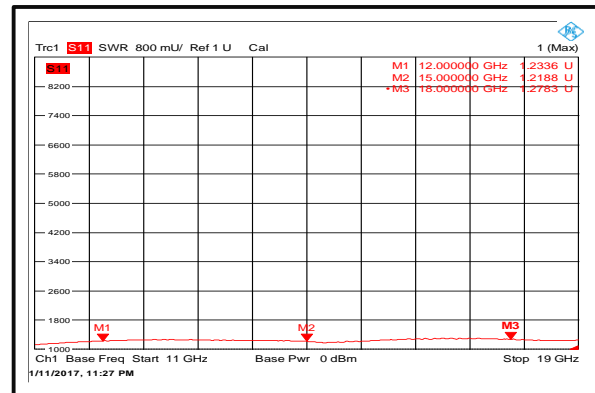
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c,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

Typical Performance Plots

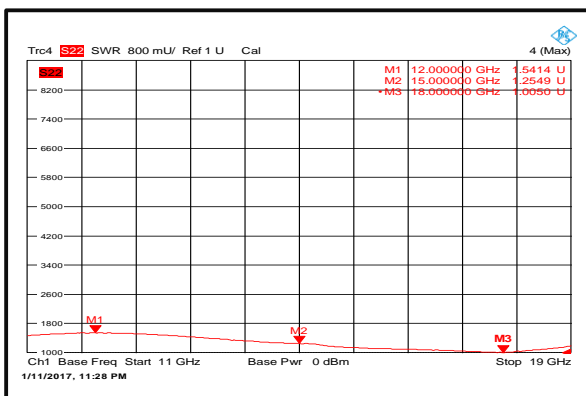
Insertion Loss



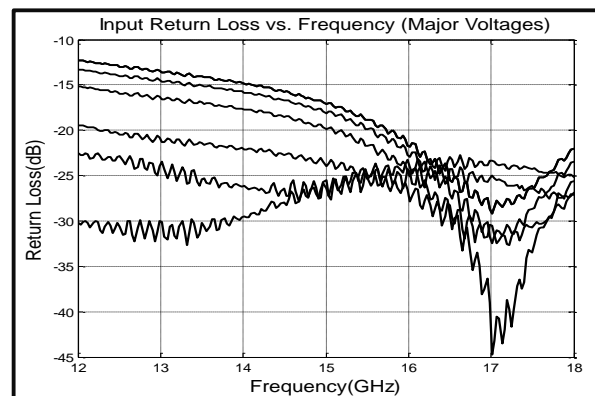
Input VSWR



Output VSWR

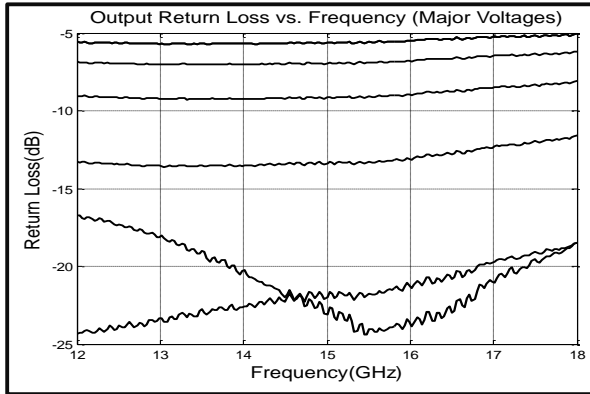


Input Return Loss vs. Frequency

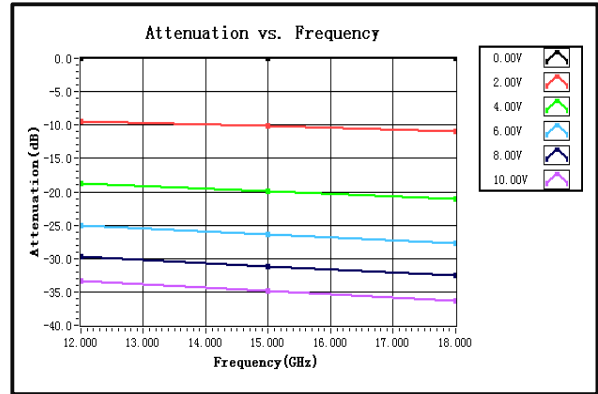




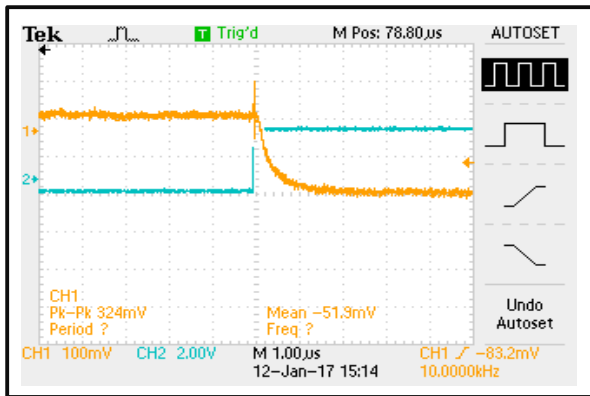
Output Return Loss vs. Frequency



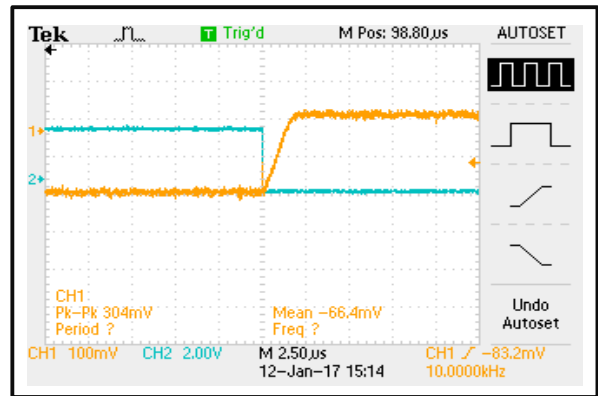
Attenuation vs. Frequency



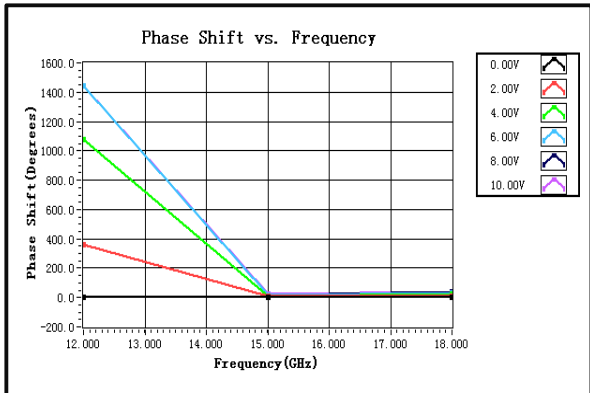
speed



speed



Phase Shift VS.Frequency

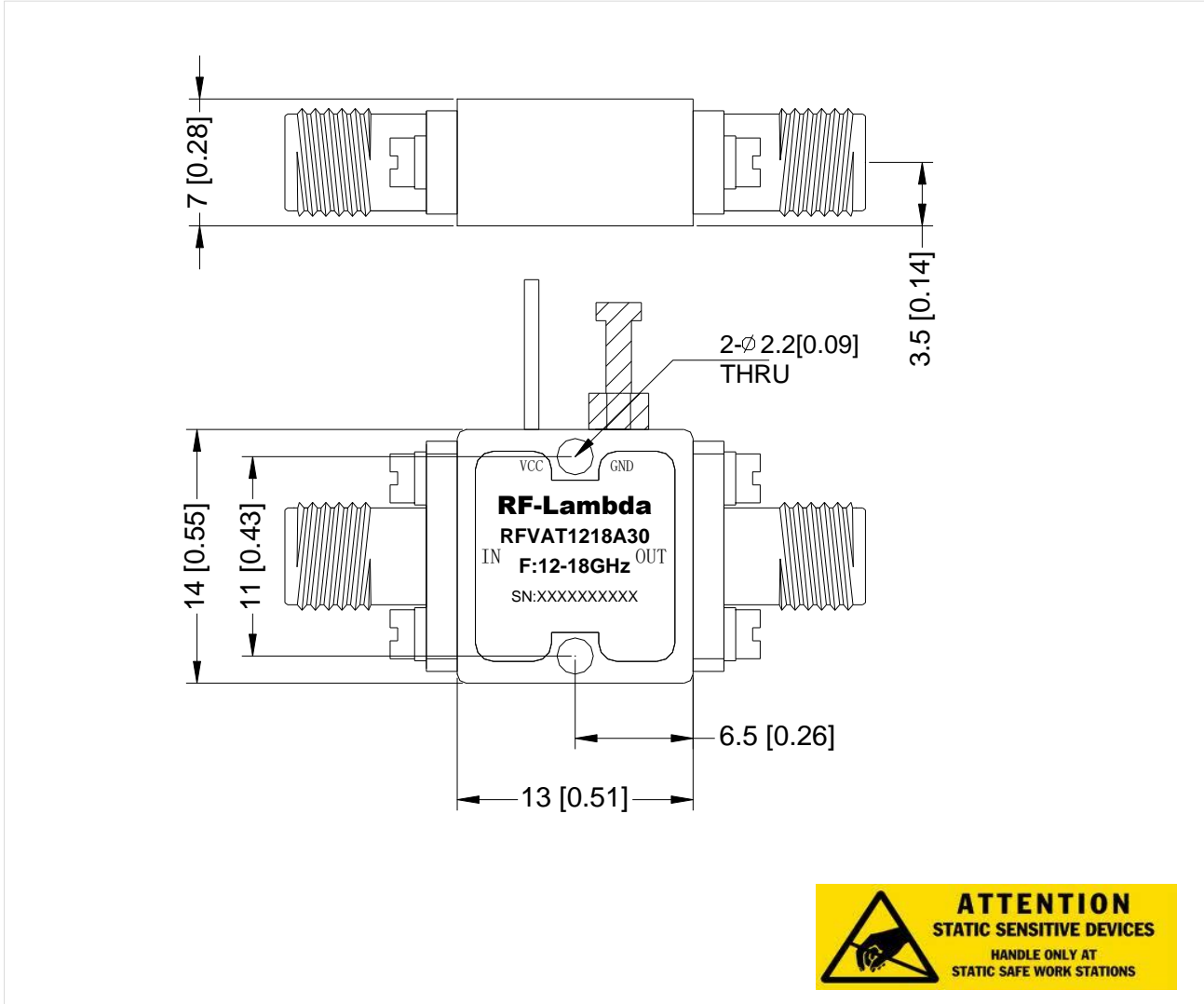


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Outline Drawing:

All Dimensions in mm [inches]



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