



Absorptive Voltage Control Attenuator 2 - 18GHz



Features

- Wide Band Operation 2-18GHz
- Wide Attenuation Range 30dB
- Absorptive Topology
- Single Control Operation
- Customization available upon request



Electrical Specifications, TA = +25 °C

Description	PN: RFVAT0812A30			
	Absorptive Voltage Attenuator			
Parameters	Min	Typ.	Max	Units
Frequency Range	2~ 18			GHz
Attenuation Range		30		dB
Insertion Loss		1.8	2.2	dB
Insertion Loss Temperature Coefficient		0.01		dB/°C
Input VSWR		1.5	1.8	: 1
Output VSWR		1.5	1.8	: 1
0.1dB Compression Po.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

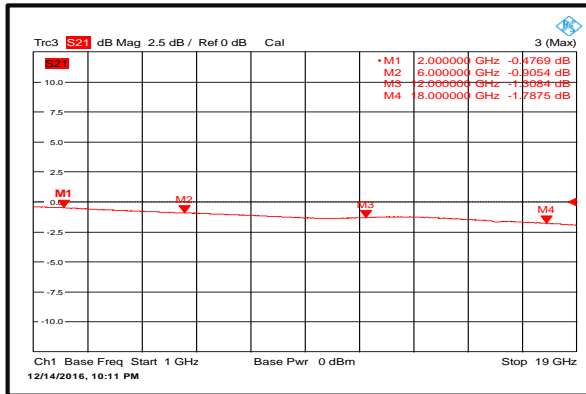
Part No.	ECCN	Description
RFVAT0218A30	EAR99	2-18GHz Voltage Control Attenuator

Environmental Specifications

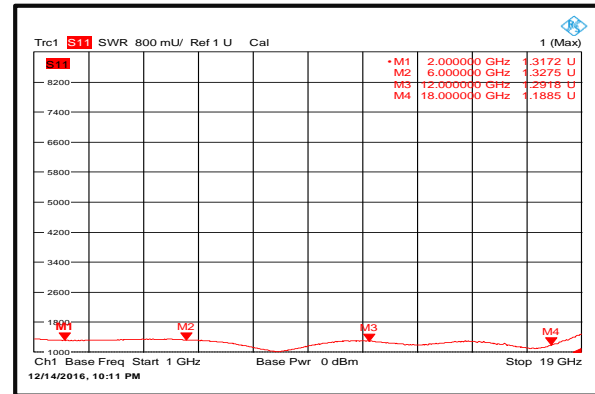
Operational Temperature (°C)	-45°C~+85°C
Storage Temperature (°C)	-55°C~+125°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Uncontrolled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

Typical Performance Plots

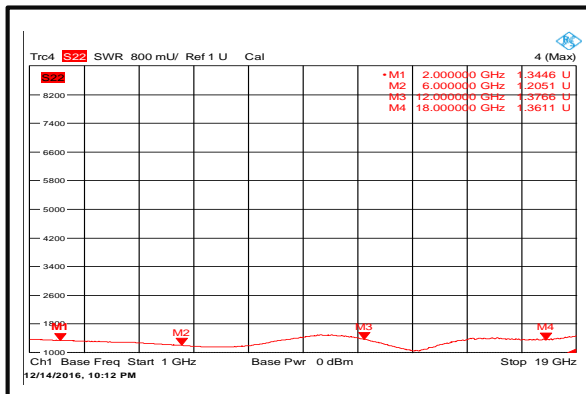
Insertion Loss



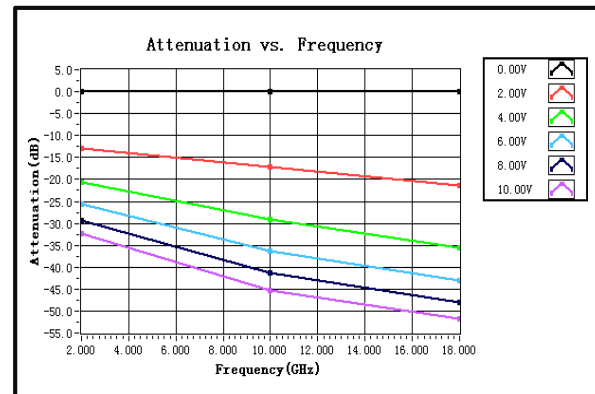
Input VSWR



Output VSWR

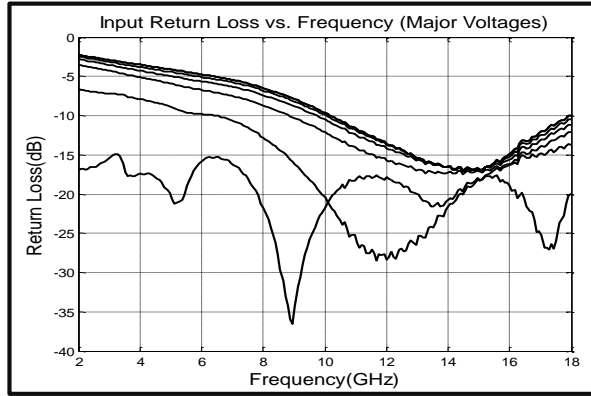


Attenuation vs. Frequency

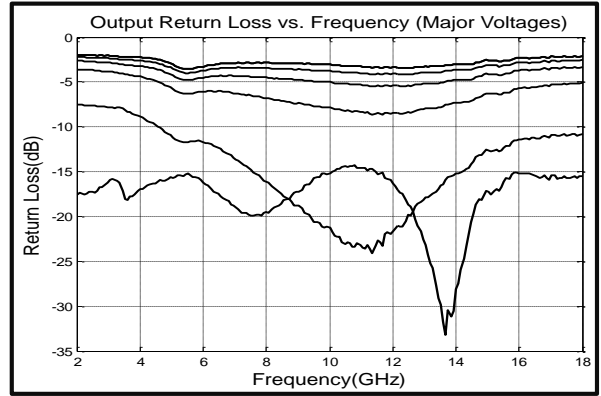




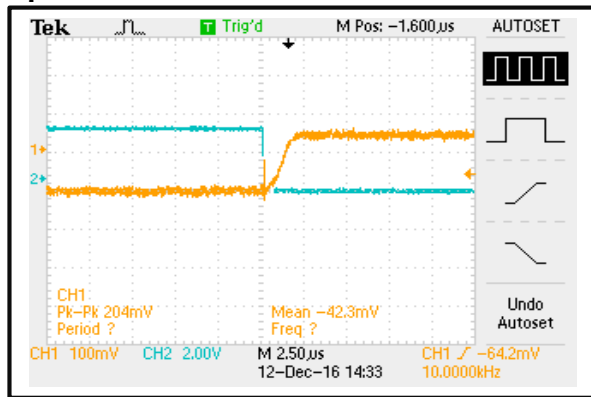
Input Return Loss vs. Frequency



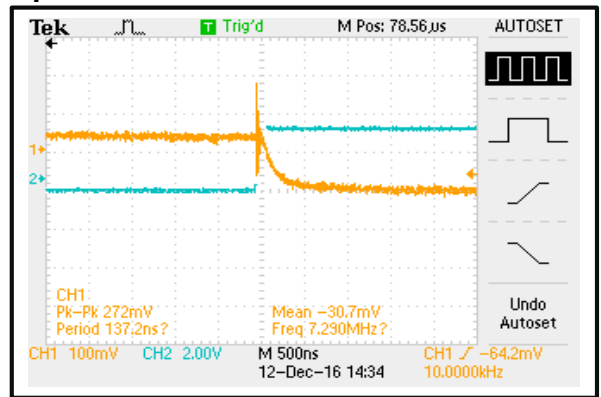
Output Return Loss vs. Frequency



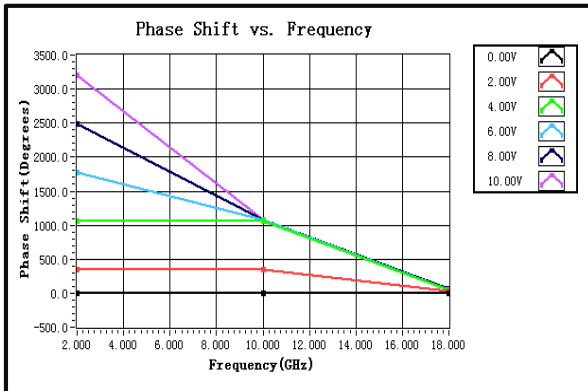
Speed



Speed



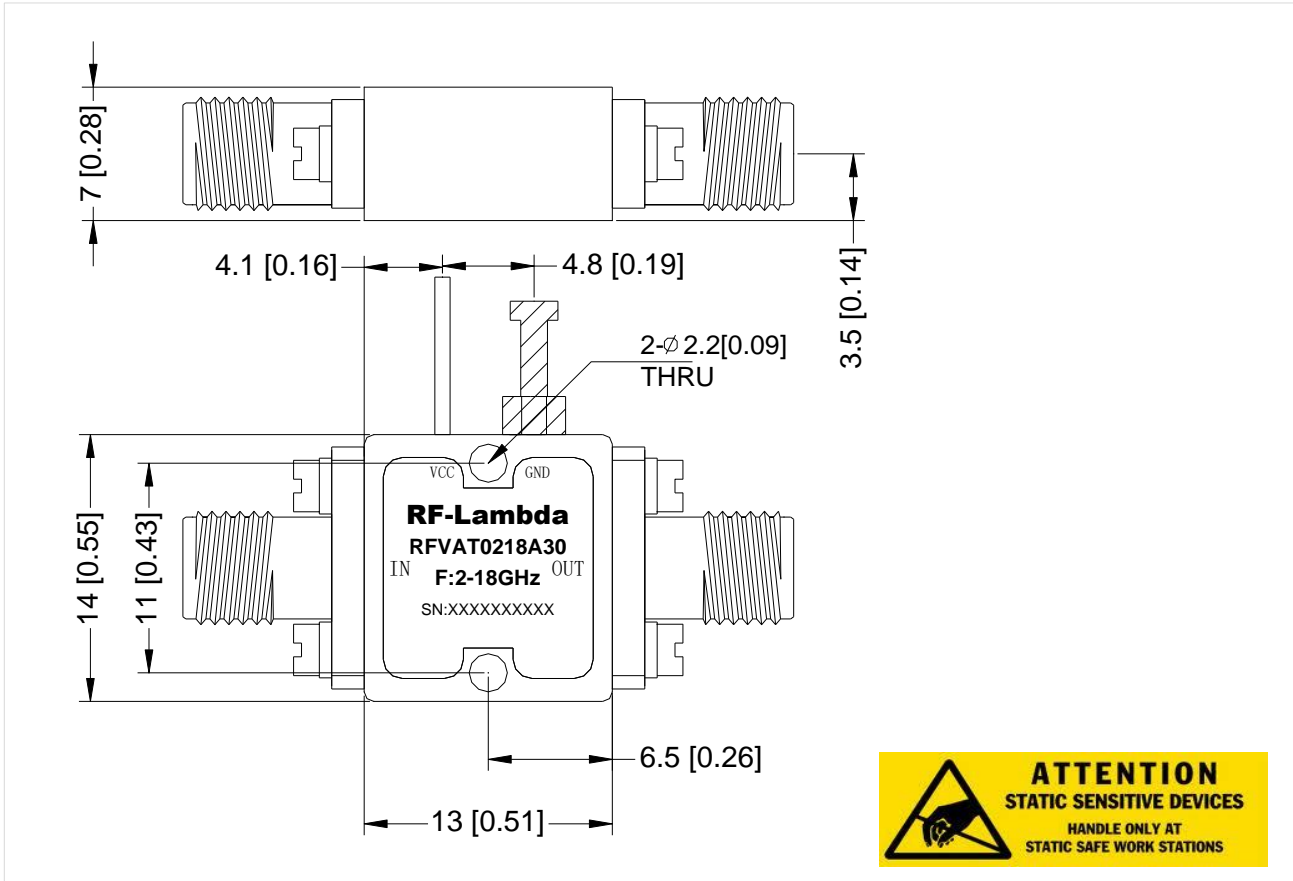
Phase Shift vs. Frequency





Outline Drawing:

All Dimensions in mm [inches]



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