

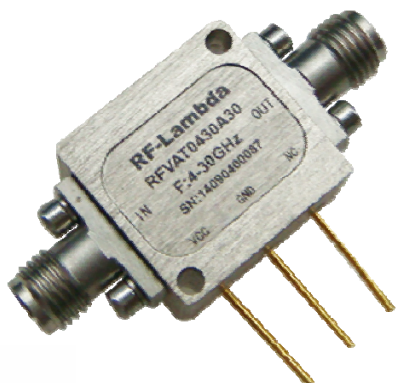


RF-LAMBDA

The power beyond expectations

RFVAT0430A30

Absorptive Voltage Control Attenuator 4-30GHz



Features

- Ultra Wide Band Operation 4-30GHz
- Wide Attenuation Range 30dB
- Absorptive Topology
- Single Control Operation
- Customization available upon request

Electrical Specifications, TA = +25 °C

Description	PN: RFVAT0430A30									
	Absorptive Voltage Attenuator									
Parameters	Min	Typ.	Max	Min	Typ.	Max	Min	Typ.	Max	Units
Frequency Range	4~17			17~24			24~30			GHz
Attenuation Range	17				30			30		dB
Insertion Loss		3.8	4		4.5	5		5.2	5.5	dB
Insertion Loss Temperature Coefficient		0.01			0.01			0.01		dB/°C
Input VSWR		1.8	2		2	2.5		2	2.5	ratio
Output VSWR		3	3.2		2.8	3		2.8	3	ratio
Input Power for 1 dB Compression		28			28			28		dBm
IM3		38			38			38		dBc
Control Voltage	-3~0									V
Weight	0.8									ounces
Impedance	50									Ω
current	1									mA
Input /Output Connector	2.9mm-Female (Standard)									
Finishing	Nickel Plated									
Material	Aluminum									
Seal	Hermetically Sealed (optional)									

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Absolute Maximum Ratings

Control Voltage	-5V~ 1V
RF Input power	+30dBm
Operating Temperature(°C)	-45 ~ +85
Storage Temperature(°C)	-50 ~ +125

Ordering Information

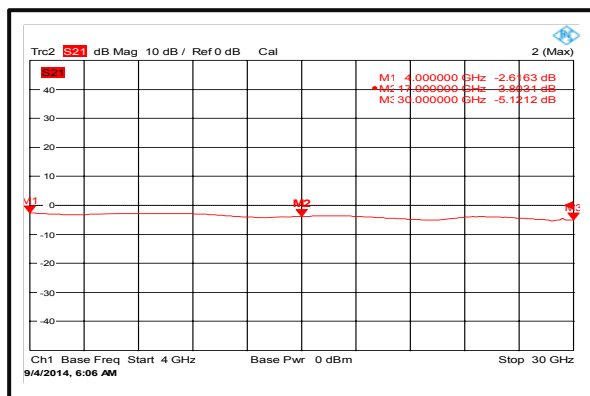
Part No	ECCN	Description
RFVAT0430A30	EAR99	4-30GHz Voltage Control Attenuator

Environment specifications

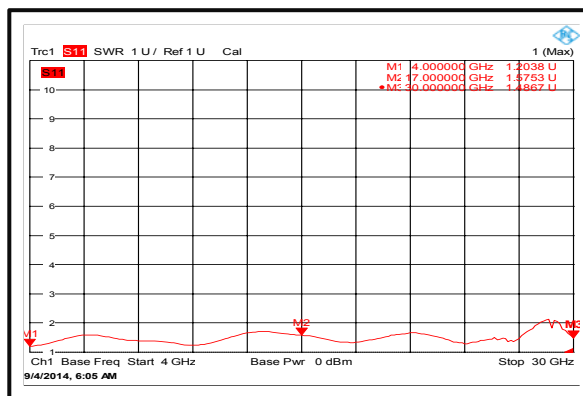
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH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

performance plots

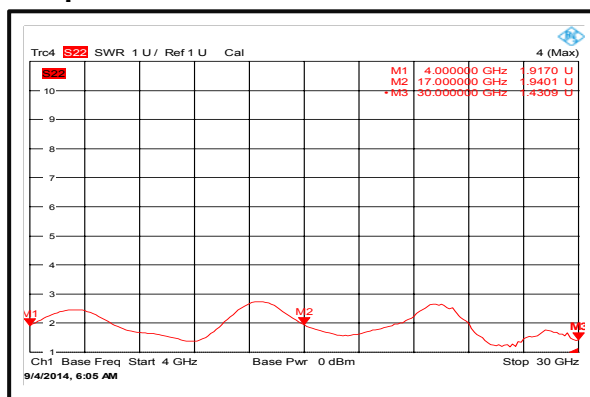
Insertion Loss



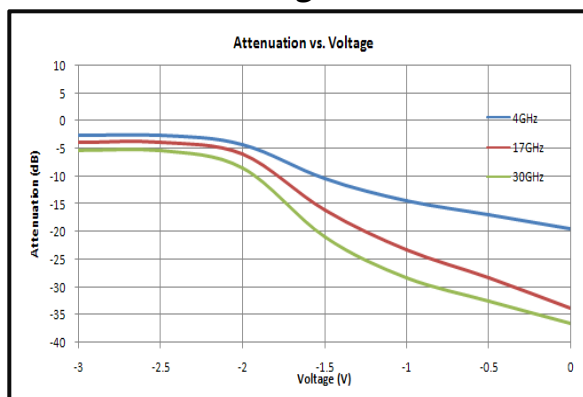
Input VSWR



Output VSWR



Attenuation vs. Voltage



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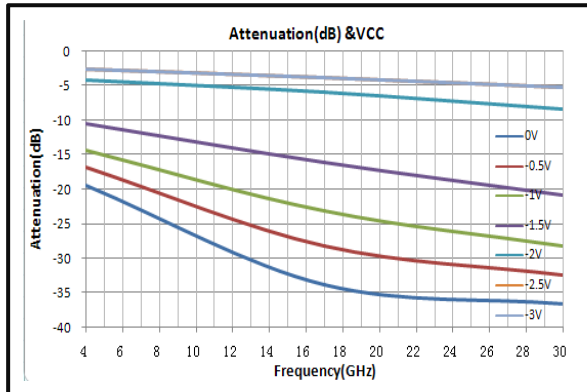


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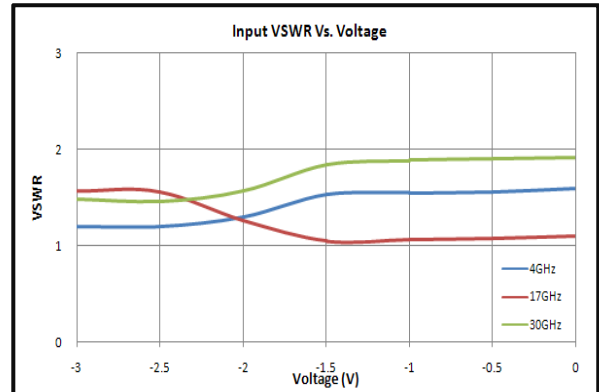
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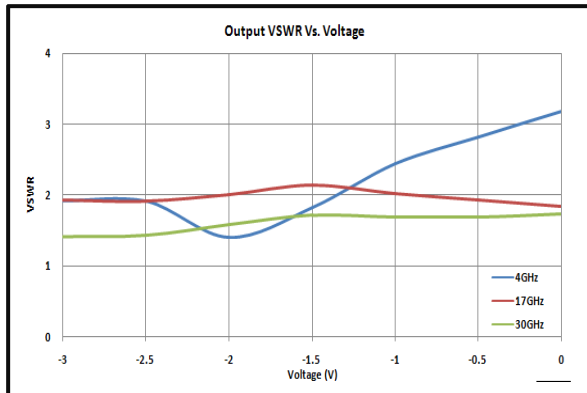
Attenuation vs. Frequency



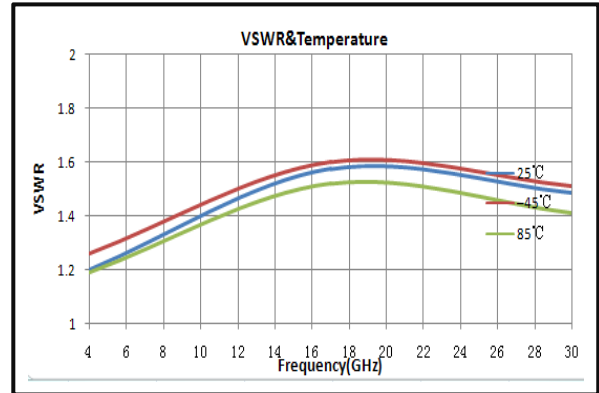
Input VSWR vs. Voltage



Output VSWR vs. Voltage



VSWR & Temperature



Output Third Order Intercept (IP₃)



2nd Harmonic Wave output Power



3rd Harmonic Wave output Power



4th Harmonic Wave output Power



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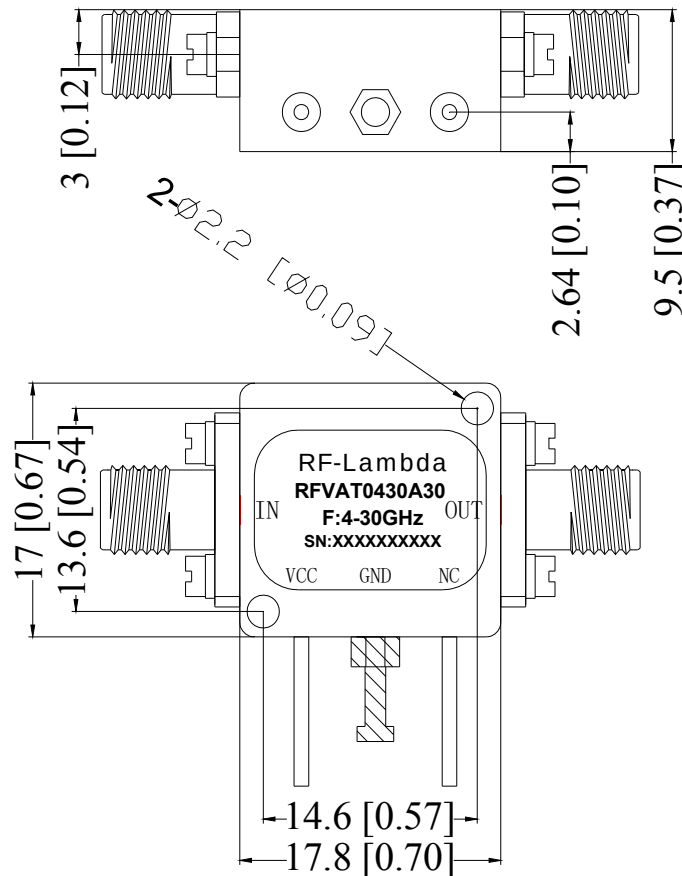
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Outline Drawing:

All Dimensions in mm (inches)



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