

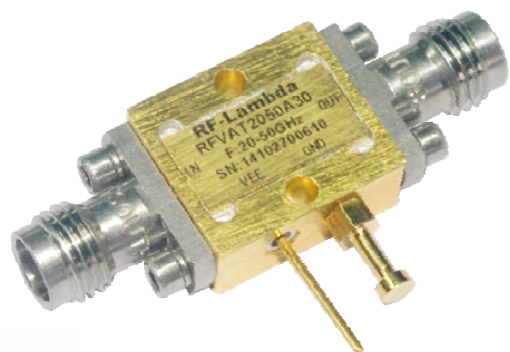


RF-LAMBDA

The power beyond expectations

RFVAT2050A30

Absorptive Voltage Control Attenuator 20-50GHz



Features

- Ultra Wide Band Operation 20-50GHz
- Wide Attenuation Range 30dB
- Series-Shunt Reflective Topology
- Single Control Operation
- Customization available upon request

Electrical Specifications, TA = +25 °C

Description	PN:RFVAT2050A30									
	Absorptive Voltage Attenuator									
Parameters	Min	Typ.	Max	Min	Typ.	Max	Min	Typ.	Max	Units
Frequency Range	20-27			27-35			35-50			GHz
Attenuation Range		30			35			40		dB
Insertion Loss		3.5	4		4	4.5		4.6	5	dB
Insertion Loss Temperature Coefficient		0.05			0.05			0.05		dB/°C
Input VSWR		1.5	2		1.7	2		1.7	2	ratio
Output VSWR		1.5	2		1.7	2		1.7	2	ratio
Input Power for 1 dB Compression		30			30			30		dBm
IM3		40			40			40		dBc
Weight	20									g
Impedance	50									Ω
current	5									mA
Input /Output Connector	2.4mm-Female (Standard)									
Finishing	Gold plating									
Material	Aluminum									
Seal	Hermetically Sealed (optional)									

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Absolute Maximum Ratings

Control Voltage	-3-0V
RF Input power	+30dBm
Operating Temperature(°C)	-45 ~ +85
Storage Temperature(°C)	-50 ~ +125

Ordering Information

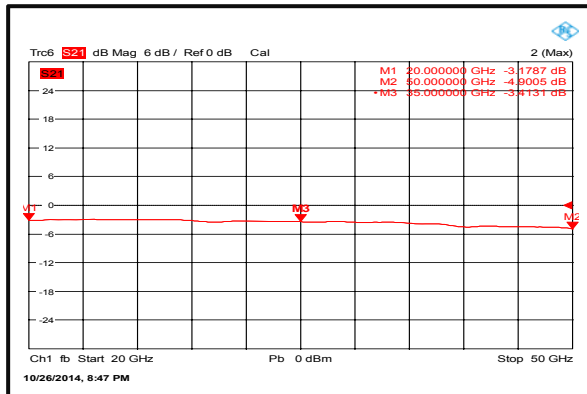
Part No	ECCN	Description
RFVAT2050A30	EAR99	20-50GHz Voltage Control Attenuator

Environment specifications

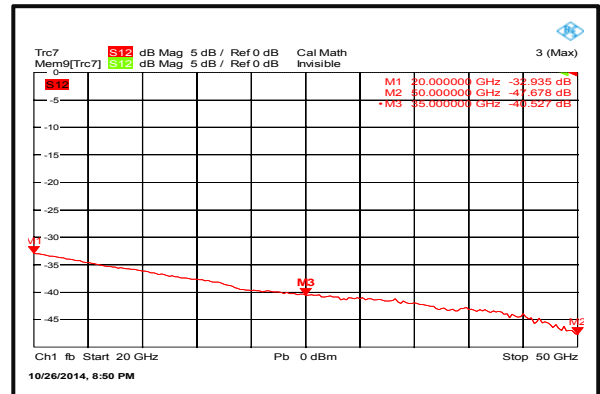
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH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

performance plots

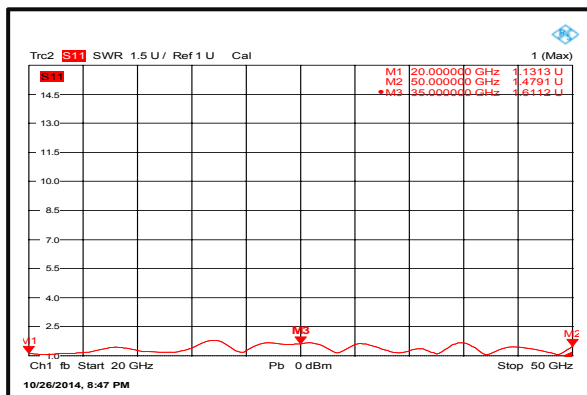
Insertion Loss



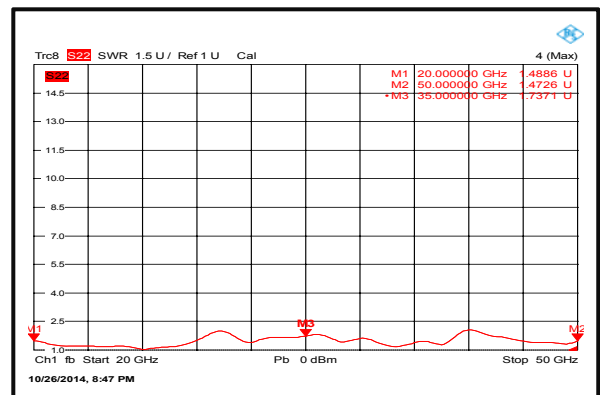
Isolation



Input VSWR



Output VSWR



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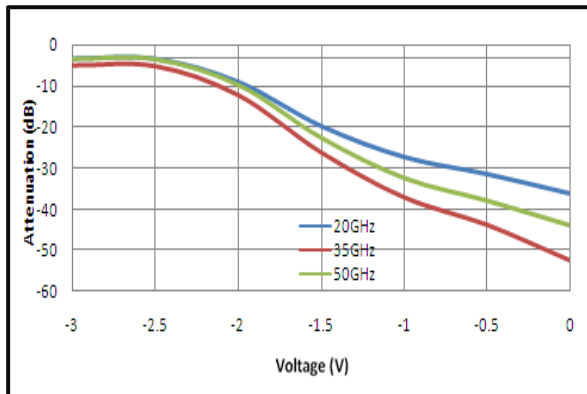


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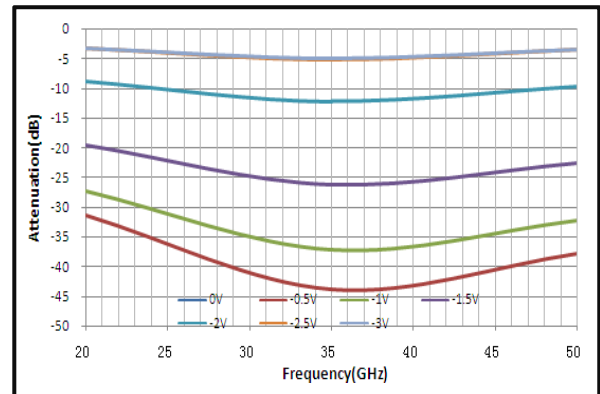
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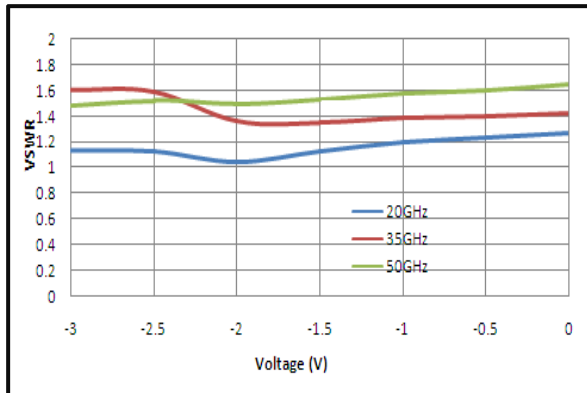
Attenuation vs. Control Voltage



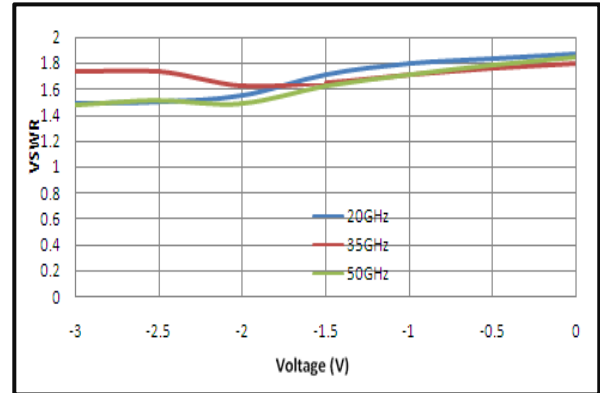
Attenuation vs. Frequency



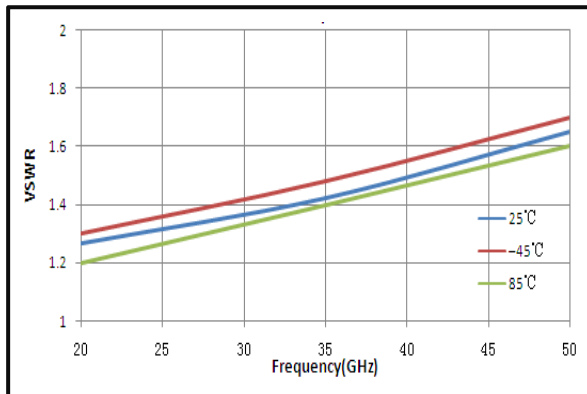
Input VSWR vs. Voltage



Output VSWR vs. Voltage



VSWR & Temperature



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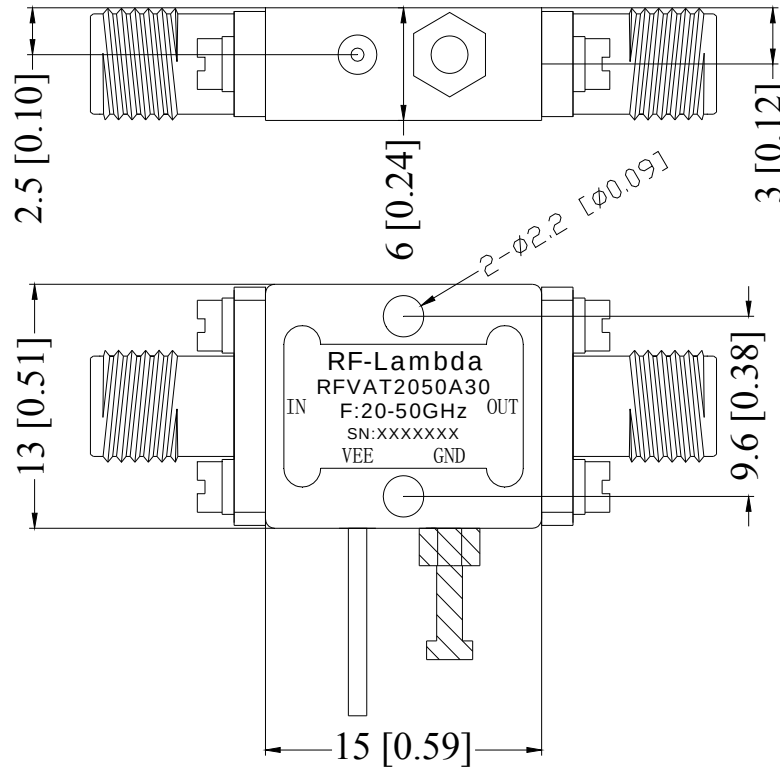
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Outline Drawing:

All Dimensions in mm (inches)



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