

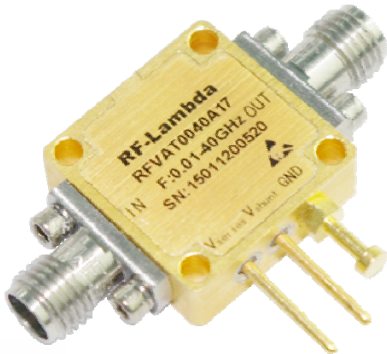


RF-LAMBDA

LEADER OF BROADBAND SOLUTIONS

RFVAT0040A17

Absorptive Voltage Control Attenuator 0.01-40GHz



Features

- Ultra Wide Band Operation 0.01-40GHz
- Wide Attenuation Range 17dB
- Absorptive Topology
- Double Negative Control Operation
- Customization available upon request

Electrical Specifications, TA = +25 °C

Description	PN:RFVAT0040A17									
	Absorptive Voltage Attenuator									
Parameters	Min	Typ.	Max	Min	Typ.	Max	Min	Typ.	Max	Units
Frequency Range	0.01 ~ 18			18~ 27			27~ 40			GHz
Attenuation Range		17			18			17		dB
Insertion Loss		2	2.2		3	3.5		3.2	3.5	dB
Insertion Loss Temperature Coefficient		0.01			0.01			0.01		dB/ °C
Input VSWR		1.6	2		2	2.5		3	3.5	ratio
Output VSWR		1.6	2		1.6	2		1.6	2	ratio
Input Power for 1 dB Compression		12			12			12		dBm
IM3		20			20			20		dBc
Weight	1.2									ounces
Impedance	50									Ω
current	2									mA
Input /Output Connector	2.92mm-Female (Standard)									
Finishing	Gold Plating									
Material	Aluminum									
Seal	Hermetically Sealed (optional)									

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Absolute Maximum Ratings

Control Voltage	-2V ~ +0.5V
RF Input power	+13dBm
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125

Ordering Information

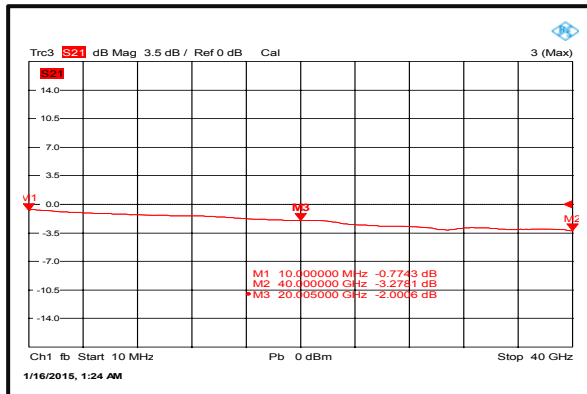
Part No	ECCN	Description
RFVAT0040A17	EAR99	0.01-40GHz Voltage Control Attenuator

Environment specifications

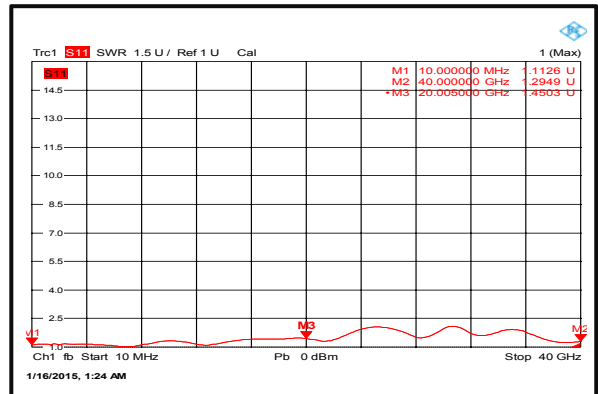
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH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

performance plots

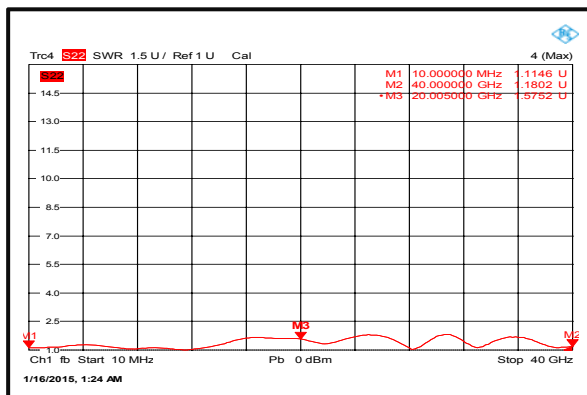
Insertion Loss



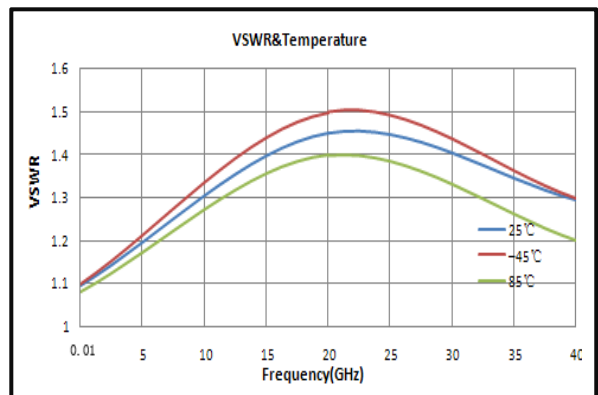
Input VSWR



Output VSWR



VSWR & Temperature



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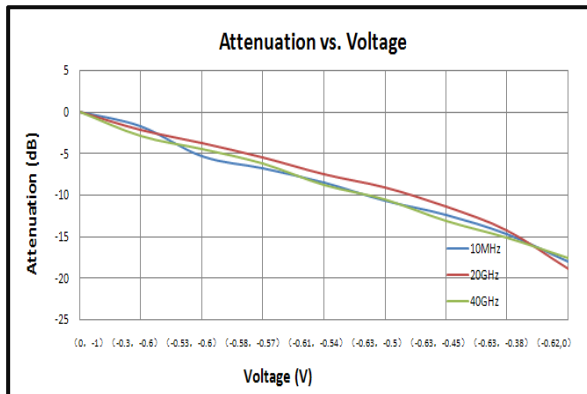


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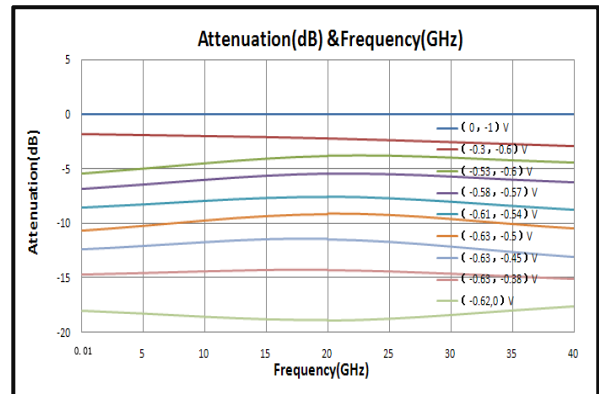
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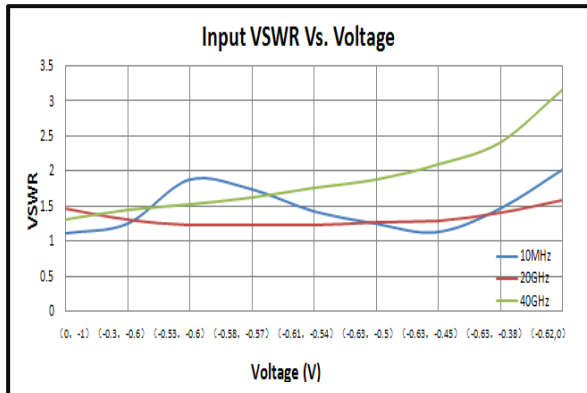
Attenuation vs. Control Voltage



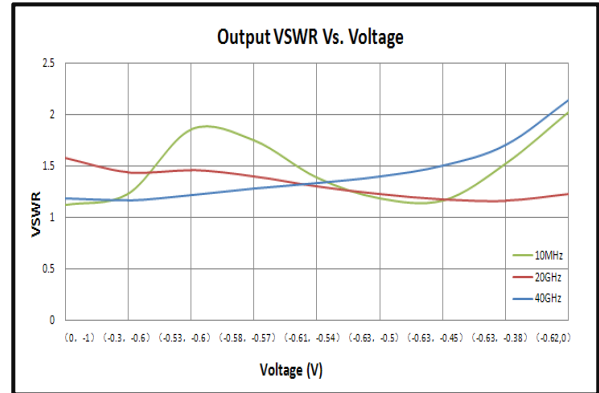
Attenuation vs. Frequency



Input VSWR vs. Voltage



Output VSWR vs. Voltage



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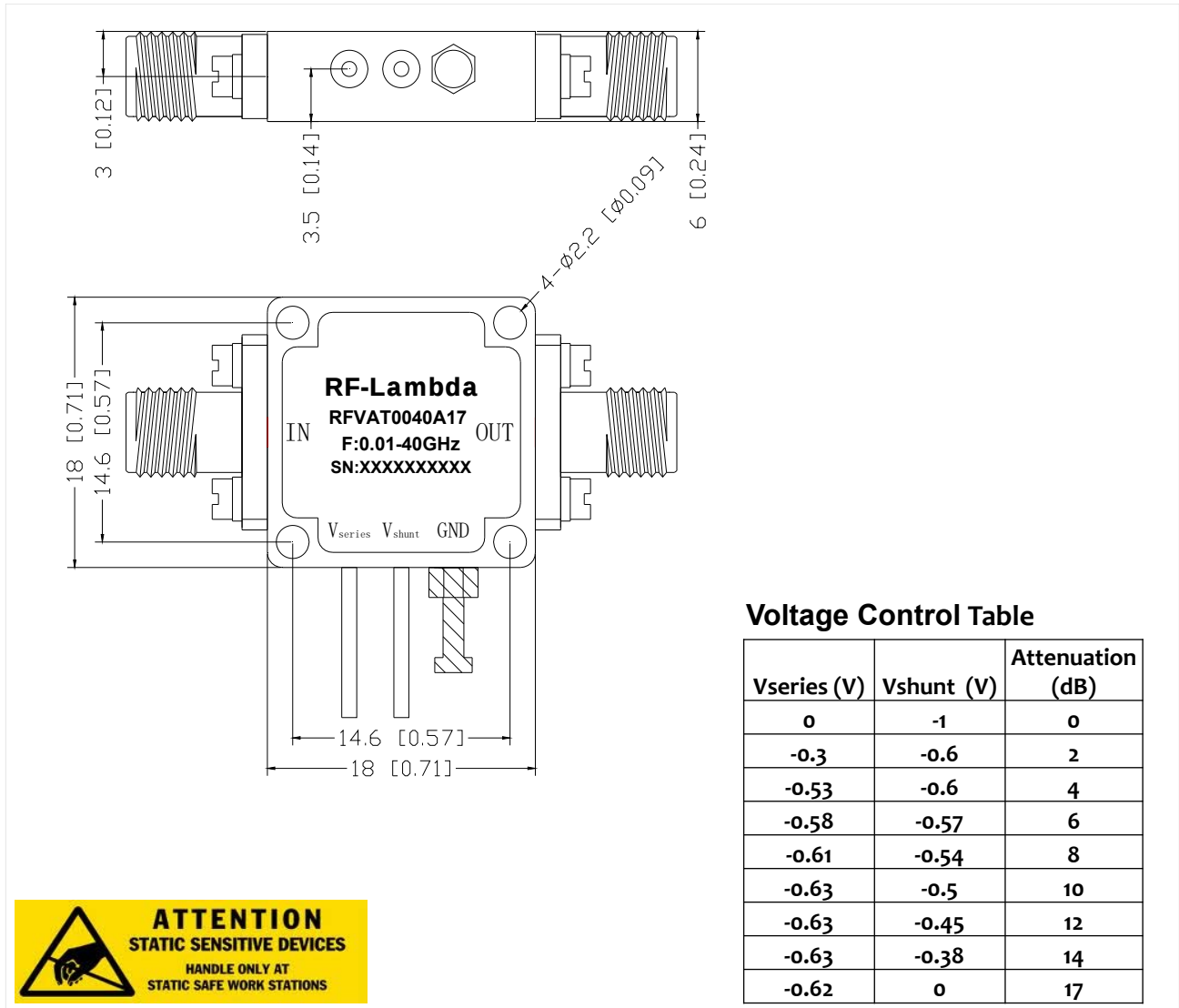
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Outline Drawing:

All Dimensions in mm (inches)



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