



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFVAT0430A30-H

Hermetically Sealed Absorptive Voltage Control Attenuator 4 - 30GHz



Features

- Wide Band Operation 4-30GHz
- Wide Attenuation Range 30dB
- Series-Shunt Reflective Topology
- Single Control Operation
- Customization available upon request

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

Description	PN:RFVAT0430A30-H									
	Absorptive Voltage Attenuator									
Parameters	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Units
Frequency Range	4-16			16-24			24-30			GHz
Attenuation Range		30			35			40		dB
Insertion Loss		3.5	4		4	4.5		4.5	5.0	dB
Insertion Loss Temperature Coefficient		0.05			0.05			0.05		dB/°C
Input VSWR		1.7	2.2		1.7	2.2		1.7	2.2	:1
Output VSWR		1.8	2.2		1.8	2.2		1.8	2.2	:1
0.1dB Compression Point (Po.1dB)		25			25			25		dBm
Input Ip3		28			28			28		dBm
Switching Speed	100									ns
Control Voltage	-3~0									V
Weight	0.35									ounces
Impedance	50									Ω
current	5									mA
Input / Output Connectors	2.92mm-Female									
Finish	Gold Plated									
Material	Aluminum									
Sealing	Hermetically Sealed									

Hermetical Sealed Absorptive Voltage Control Attenuator 4 - 30GHz



Absolute Maximum Ratings

Control Voltage	-5V ~ +1V
RF Input Power	+30dBm

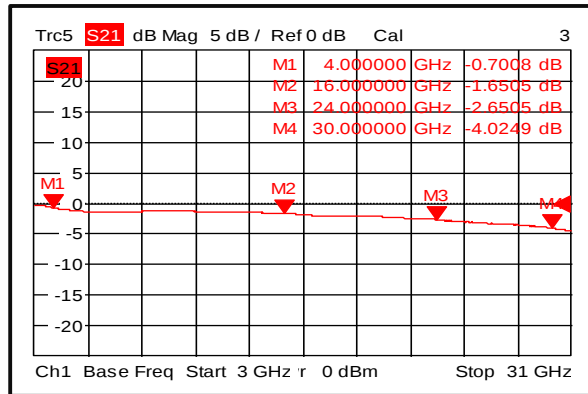
Ordering Information

Part No.	ECCN	Description
RFVAT0430A30-H	EAR99	4-30GHz Voltage Controlled Attenuator

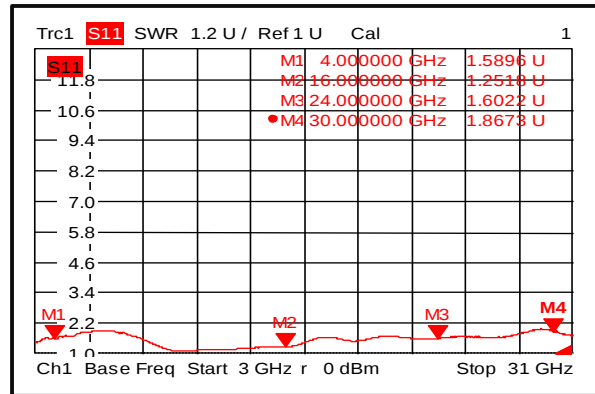
Environmental Specifications

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 Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

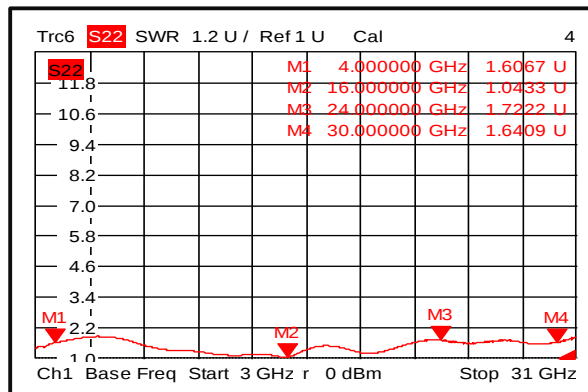
Insertion Loss @+25°C



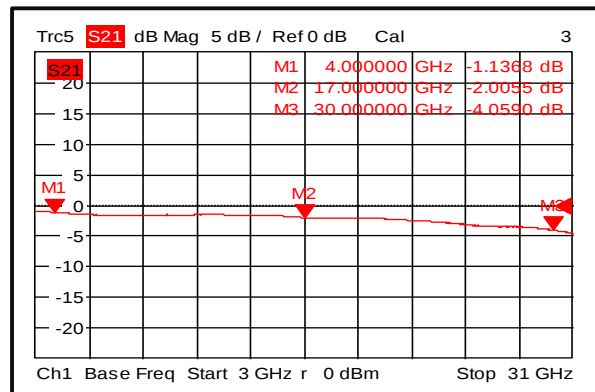
Input VSWR @+25°C



Output VSWR @+25°C

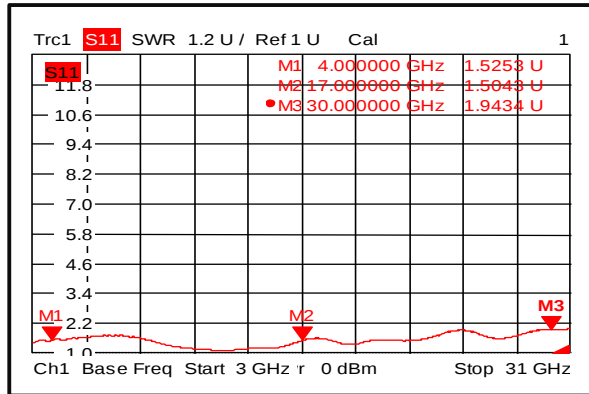


Insertion Loss @-45°C

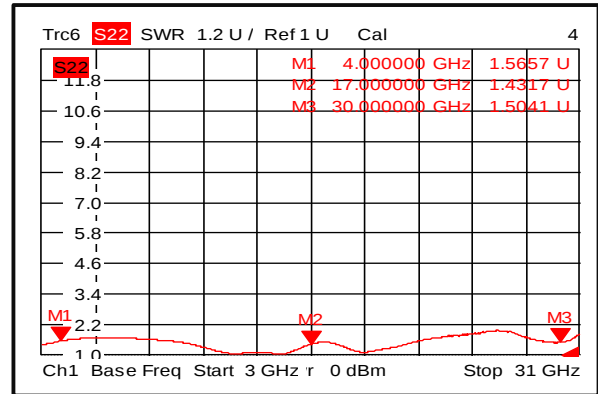




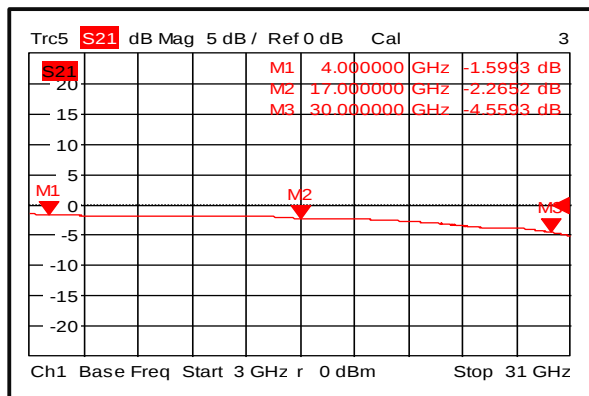
Input VSWR @-45°C



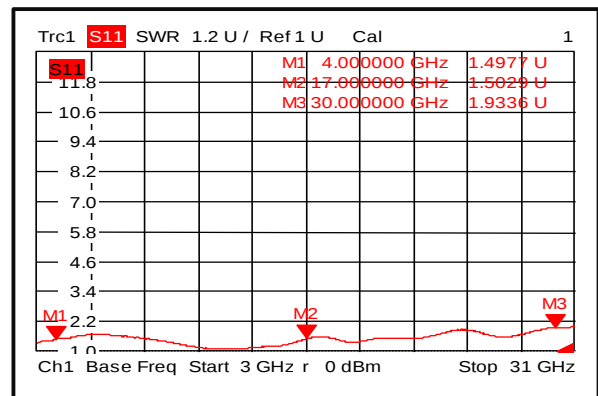
Output VSWR @-45°C



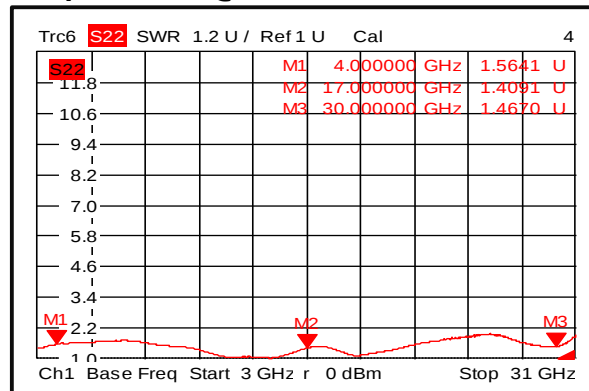
Insertion Loss @+85°C



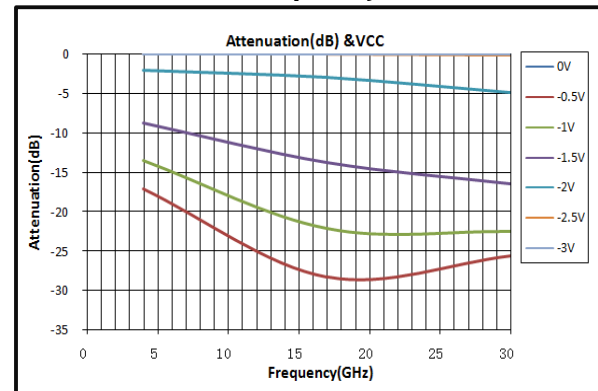
Input VSWR @+85°C



Output VSWR @+85°C

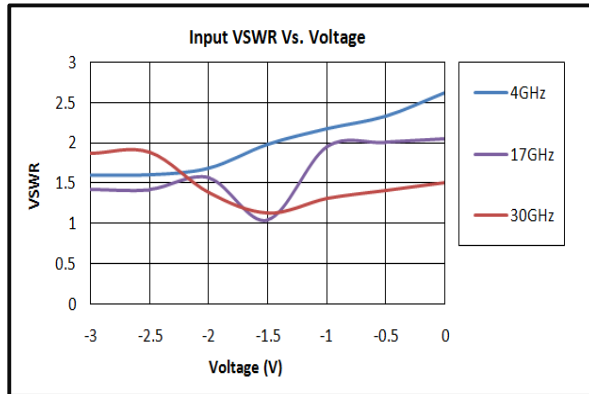


Attenuation vs. Frequency

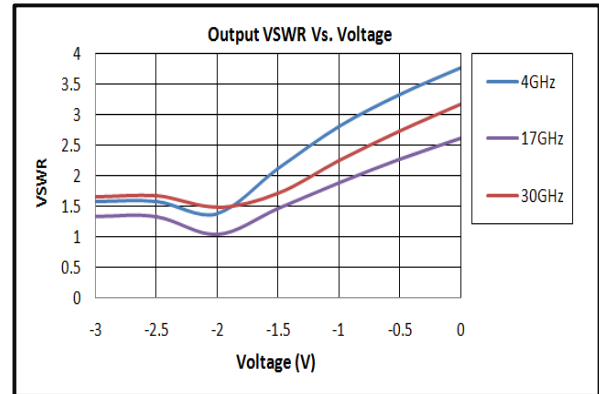




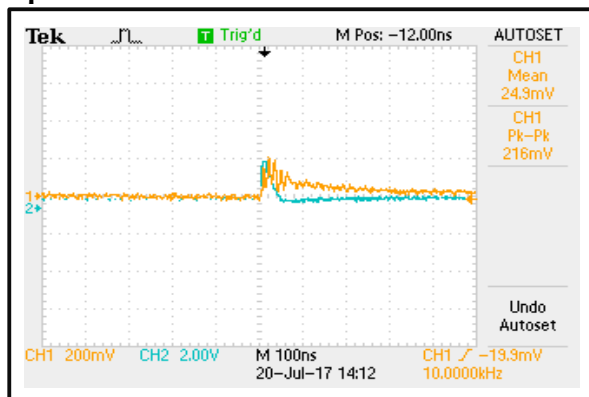
Input VSWR Vs. Voltage



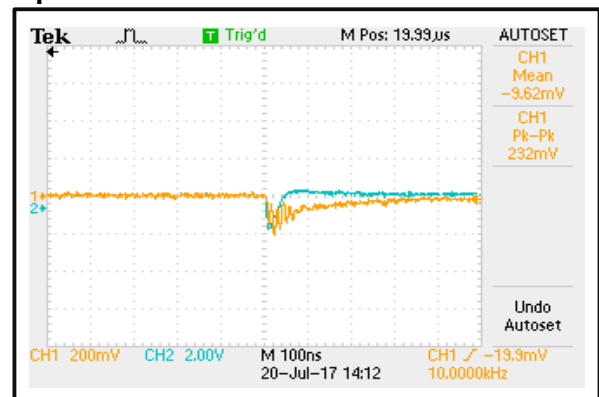
Output VSWR Vs. Voltage



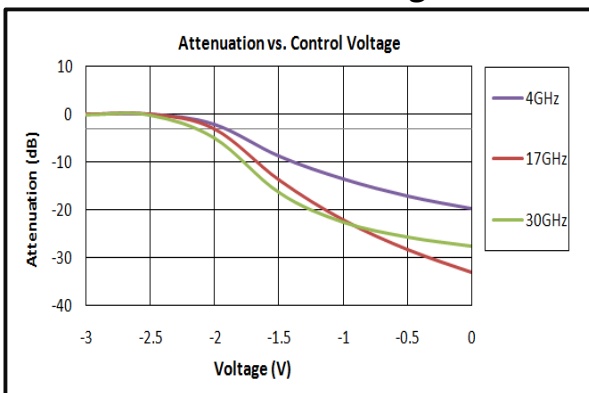
Speed



Speed



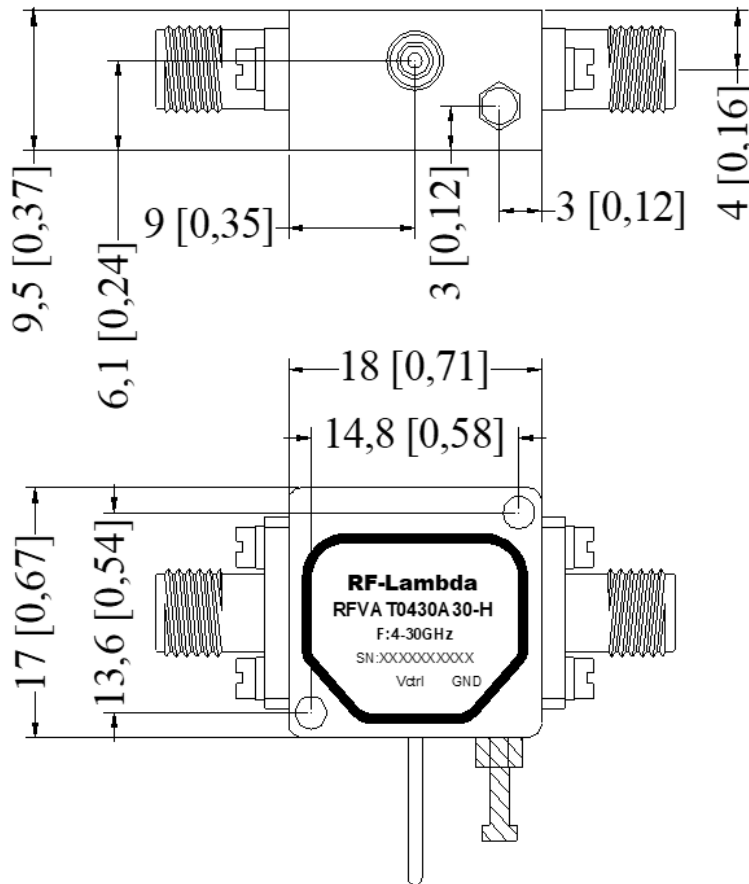
Attenuation vs. Control Voltage





Outline Drawing:

All Dimensions in mm [inches]



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