RF-LAMBDA
THE LEADER OF RF BROADBAND SOLUTIONS

RFVAT1226A30

Absorptive Voltage Control Attenuator 12-26.5GHz

Note: Photo is for illustration purposes only.
Please refer to outline drawing.

Features

- Wide Band Operation 12-26.5GHz
- Wide Attenuation Range 30dB
- Absorptive Topology
- Singe Control Operation

Typical Applications

- Wireless Infrastructure
- Test and Measurement
- Military and Aerospace

Electrical Specifications, TA = +25 °C

Description	PN: RFVAT1226A30			
	Absorptive Voltage Attenuator			
Parameter	Min.	Typ.	Max.	Units
Frequency Range		12~26.5		GHz
Attenuation Range	30			dB
Insertion Loss		2.2	3.0	dB
Insertion Loss Temperature Coefficient		0.01		dB/°C
Input VSWR @Insertion Loss state		1.6	2.0	: 1
Output VSWR @Insertion Loss state		1.6	2.0	: 1
0.1dB Compression Point (P0.1dB)		30		dBm
Input Ip3		43		dBm
Switching Speed		2.5		us
Control Voltage	0	10		V
Weight		0.4 Max.		ounces
Impedance		50		Ω
Current		40 Max.		mA
Input / Output Connectors		SMA-Female		
Finish		Gold plated		
Material		Aluminum		
Sealing		Hermetically Sealed (Optional)		

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Absolute Maximum Ratings

Control Voltage	0 ~ 13V
RF Input Power	+30dBm

Ordering Information

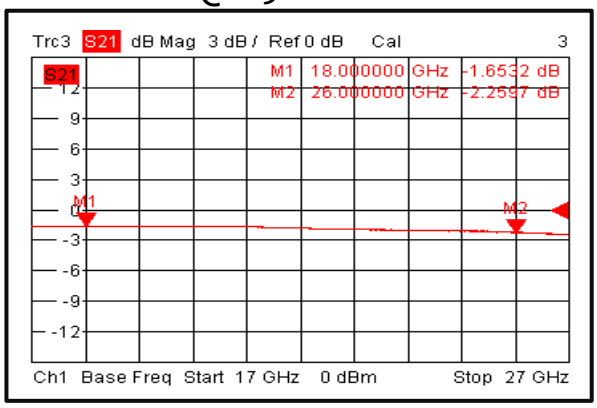
Part No.	Description
RFVAT1226A30	12-26.5GHz Voltage Control Attenuator

Environmental Specifications and Test Standards

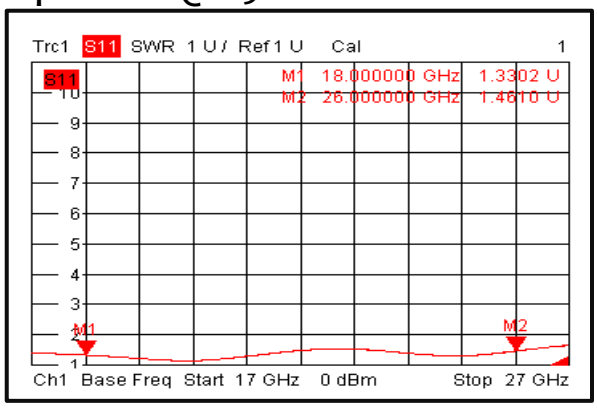
Parameter	Description
Operational Temperature	-40℃~+85℃ (Case Temperature)
Storage Temperature	-50℃~+105℃
Thermal Shock	-40℃ → +85℃ (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85℃ for 72 Hours
Shock	1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude	Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883 (For Hermetically Sealed Units)

Typical Performance Plots

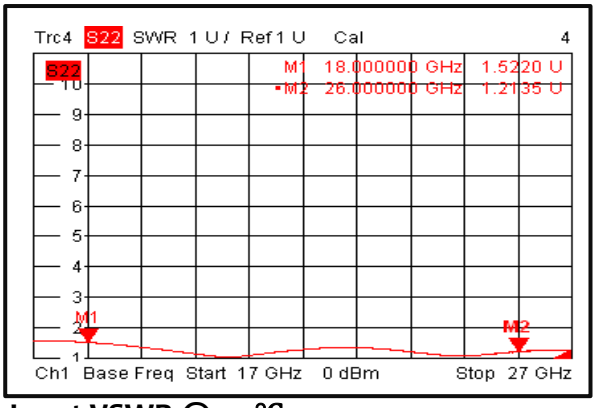
Insertion Loss@+25℃



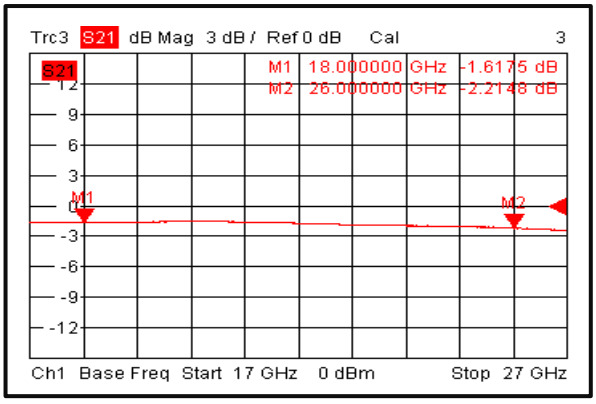
Input VSWR @+25℃



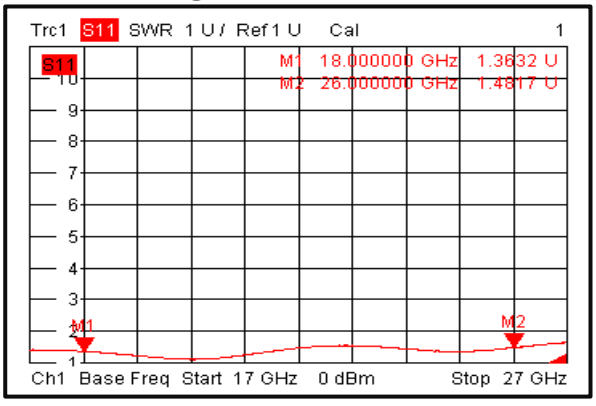
Output VSWR @+25℃



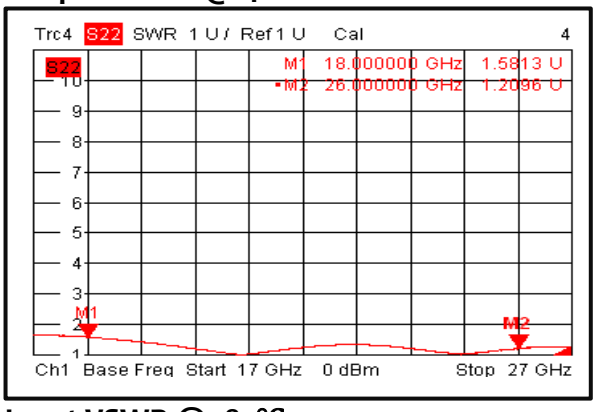
Insertion Loss @-40℃



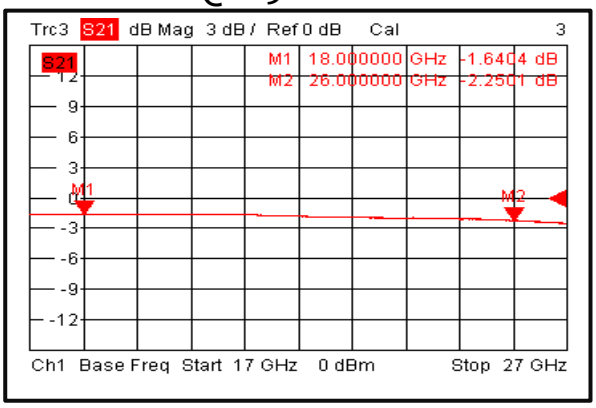
Input VSWR @-40℃



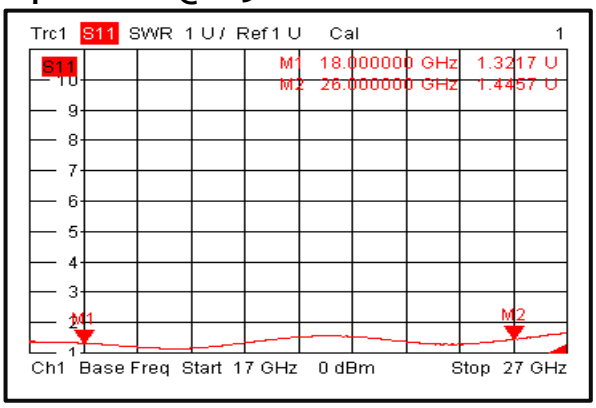
Output VSWR @-40℃



Insertion Loss@+85℃



Input VSWR @+85℃



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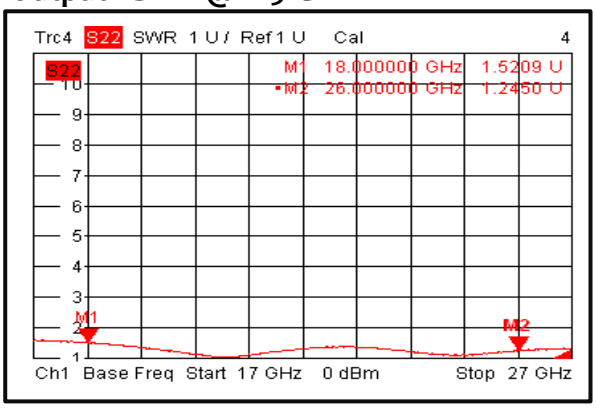
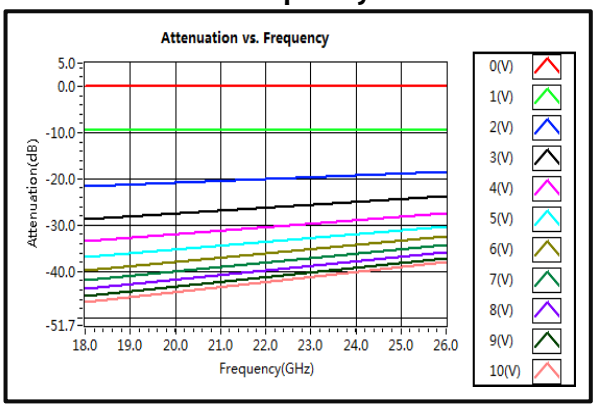
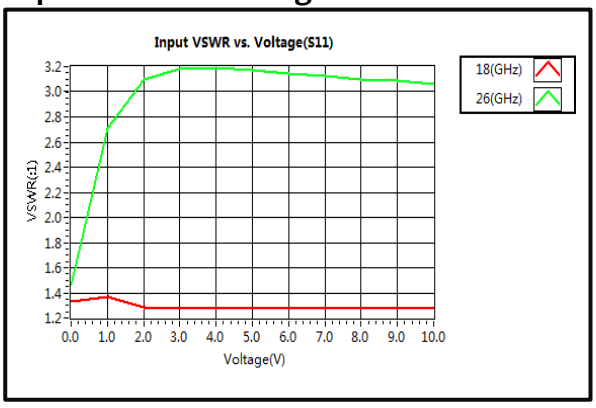
Output VSWR @+85℃



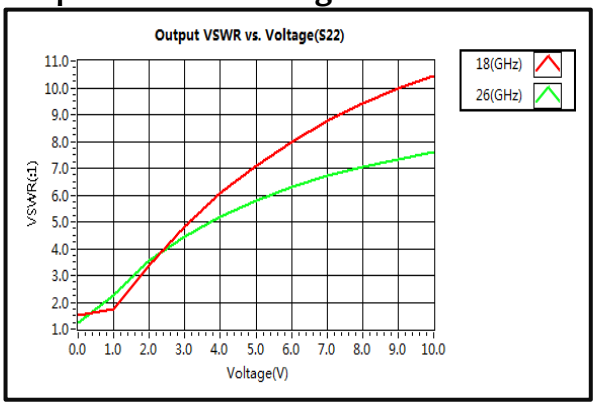
Attenuation vs. Frequency



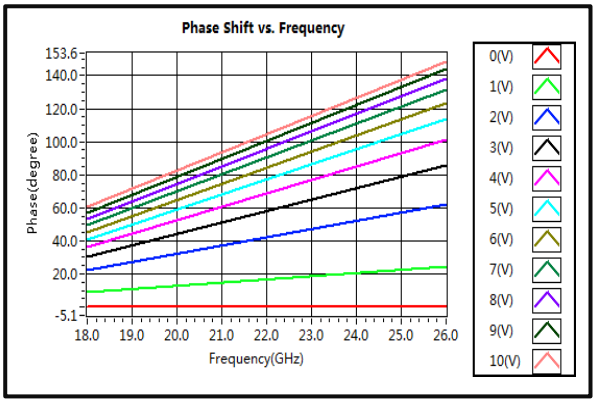
Input VSWR vs. Voltage



Output VSWR vs. Voltage



Phase Shift vs. Frequency



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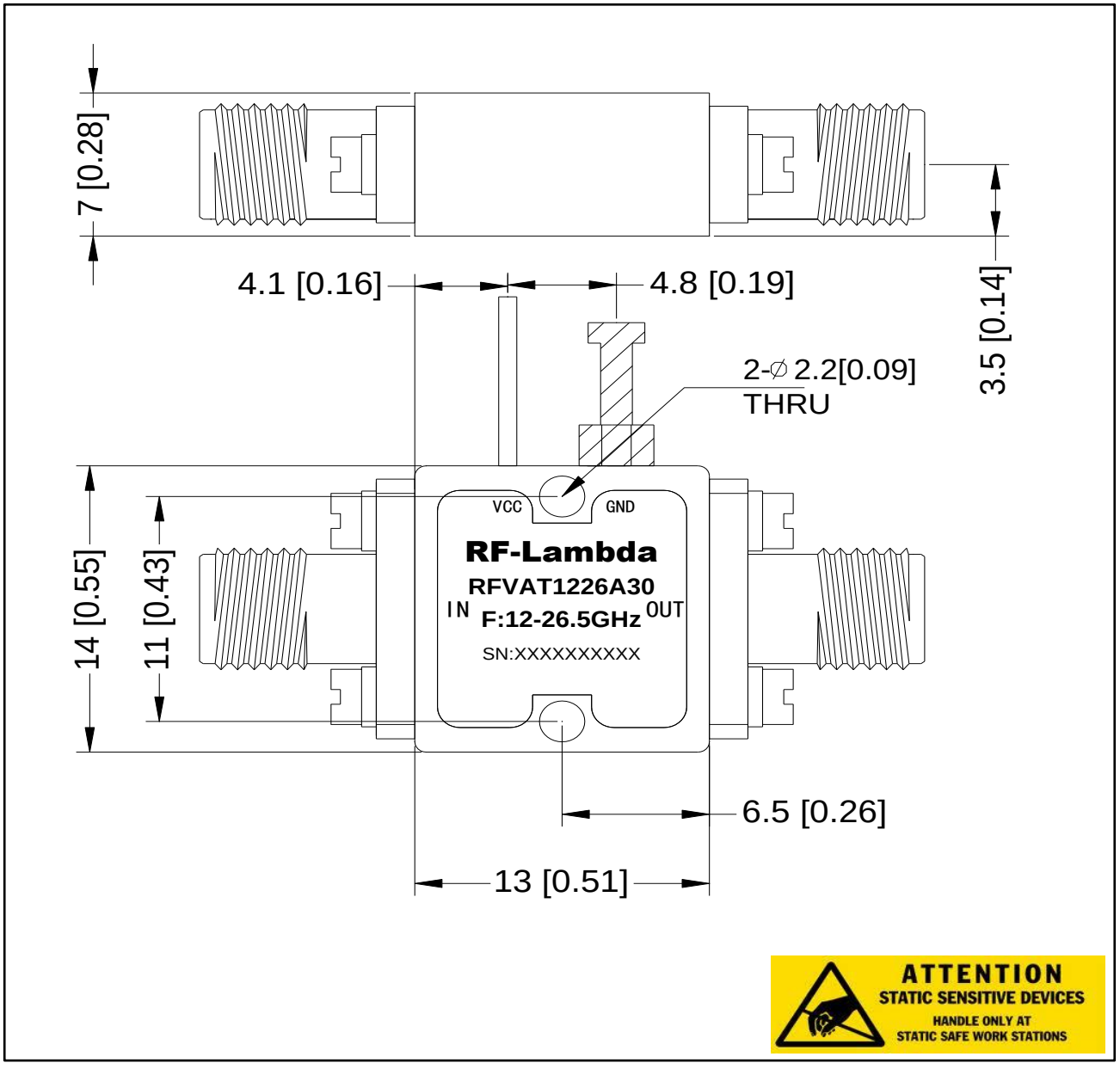
Outline Drawing:

All Dimensions in mm [inches]
Tolerances ±0.1 [0.004]



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