



# Absorptive Voltage Control Attenuator 8-12GHz

## Features

- Wide Band Operation 8-12GHz
- Wide Attenuation Range 30dB
- Reflective Topology
- Single Control Operation
- Customization available upon request



Parameters	Min	Typ.	Max	Units
Frequency Range	8		12	GHz
Attenuation Range	30			dB
Insertion Loss		1.7	2.0	dB
Insertion Loss Temperature Coefficient		0.003		dB/ °C
Input VSWR		1.5	1.8	: 1
Output VSWR		1.5	1.8	: 1
0.1dB Compression Point ( P0.1dB )			27	dBm
Input Ip3		45		dBm
Switching Speed		2.5		us
Control Voltage	0	10		V
Weight		0.35		ounces
Impedance		50		$\Omega$
current		15		mA
Input / Output Connectors		SMA-Female		
Finish		Gold plated		
Material		Aluminum		
Sealing		Hermetically Sealed ( optional )		



### Absolute Maximum Ratings

Control Voltage	0~ 13V
RF Input power	30dBm

### Environmental Specifications

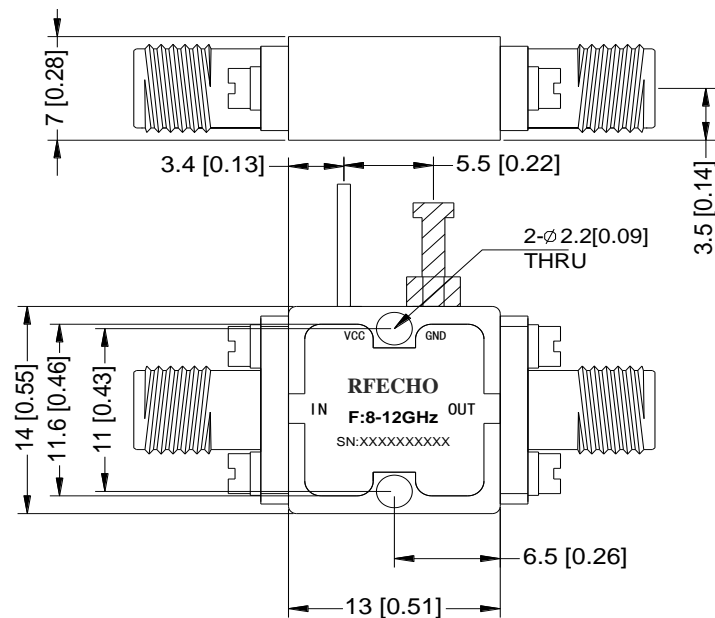
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

### Ordering Information

Part No.	Description
DBVA3008001200A	8-12GHz Voltage Control Attenuator

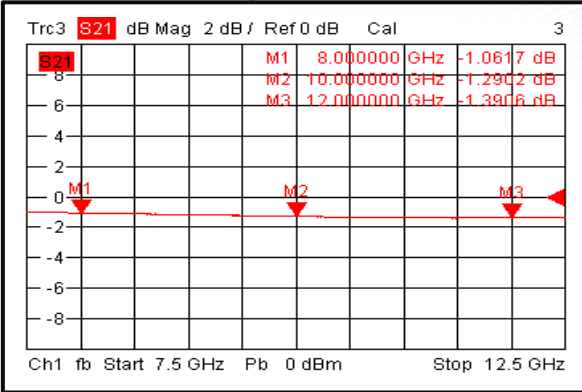
### Outline Drawing:

All Dimensions in mm (inches)

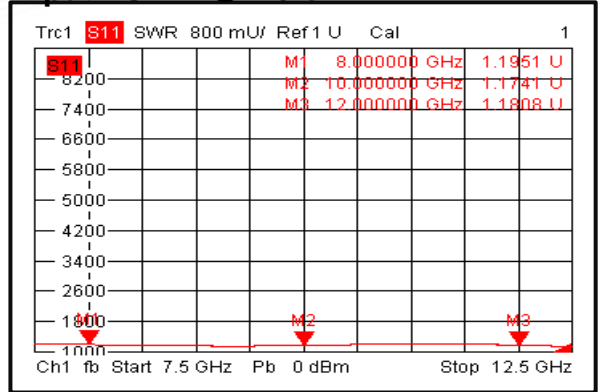




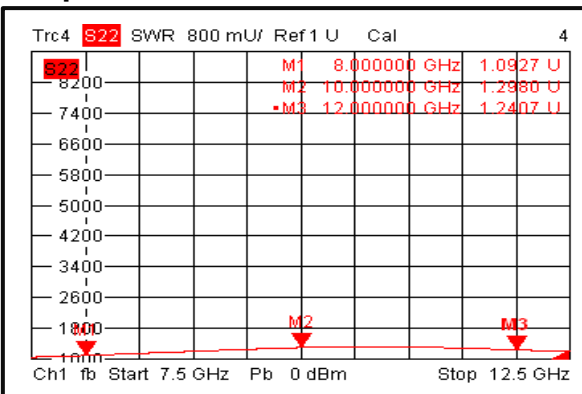
### Insertion Loss @+25



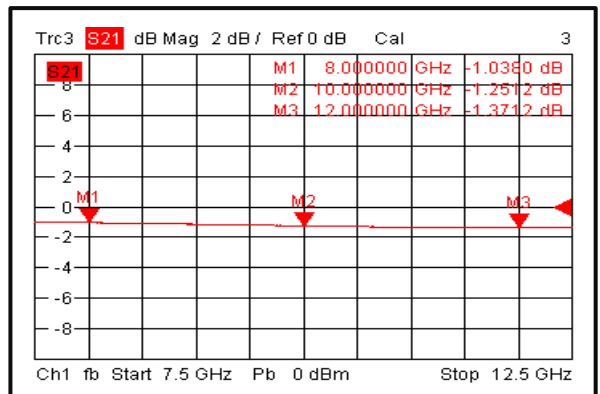
### Input VSWR @+25°C



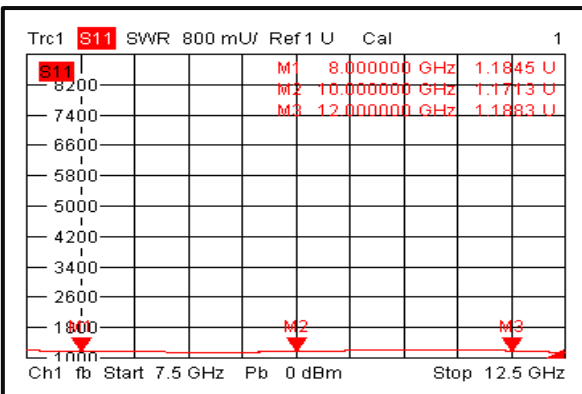
### Output VSWR @+25°C



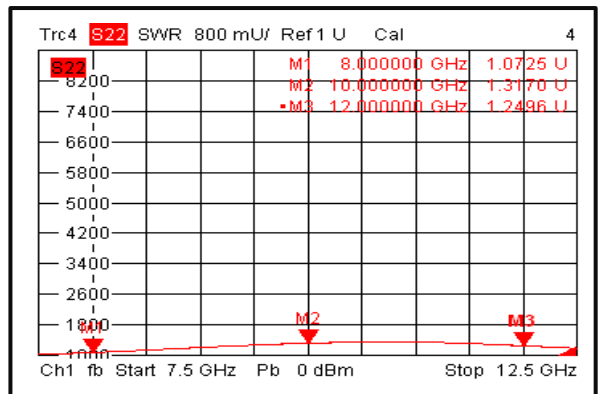
### Insertion Loss @-40°C



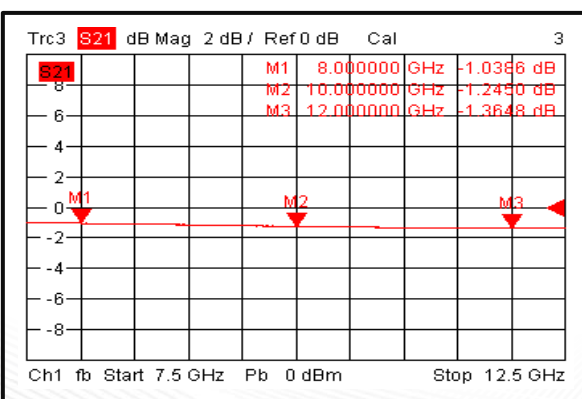
### Input VSWR @-40°C



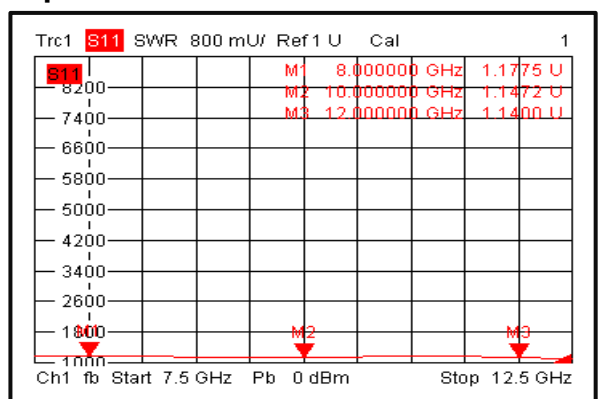
### Output VSWR @-40°C



### Insertion Loss @+85°C

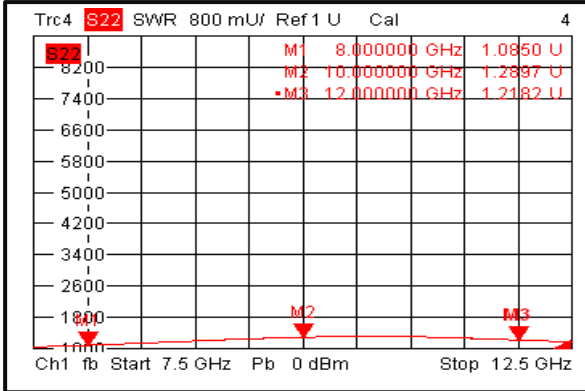


### Input VSWR @+85°C

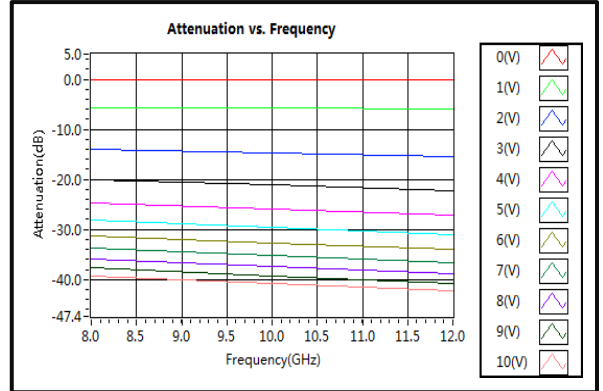




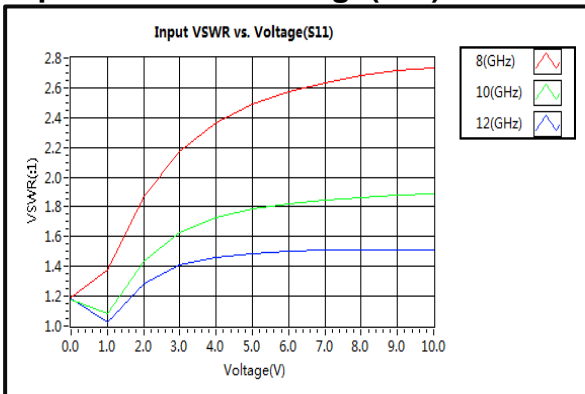
### Output VSWR @+85°C



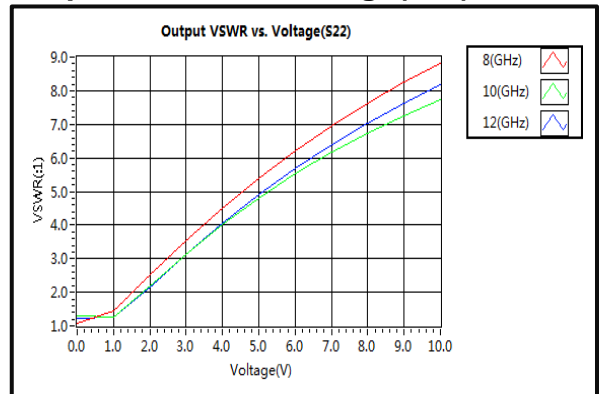
### Attenuation vs. Frequency



### Input VSWR vs. Voltage(s11)



### Output VSWR vs. Voltage(s22)



### Phase Shift vs. Frequency

