



Absorptive Voltage Control Attenuator 2-4GHz

Features

- Wide Band Operation 2-4GHz
- Wide Attenuation Range 30dB
- Absorptive Topology
- Single Control Operation
- Customization available upon request



Parameters	Min.	Typ.	Max.	Units
Frequency Range	2		4	GHz
Attenuation Range	30			dB
Insertion Loss		1.0	1.5	dB
Insertion Loss Temperature Coefficient		0.003		dB/ °C
Input VSWR		1.3	1.5	: 1
Output VSWR		1.3	1.5	: 1
Input Power for 1 dB Compression		27		dBm
IP3 Input		35		dBm
Switching Speed			10	us
Control Voltage	0	7		V
Weight		3.17		ounces
Impedance		50		Ω
current		25		mA
Input / Output Connectors		SMA-Female		
Control connector		SMA-Female		
Finish		Gold plating		
Material		Brass		
Sealing		Hermetically Sealed (optional)		



Absolute Maximum Ratings

Control Voltage	DC ~ 10V
RF Input power	+30dBm

Environmental Specifications

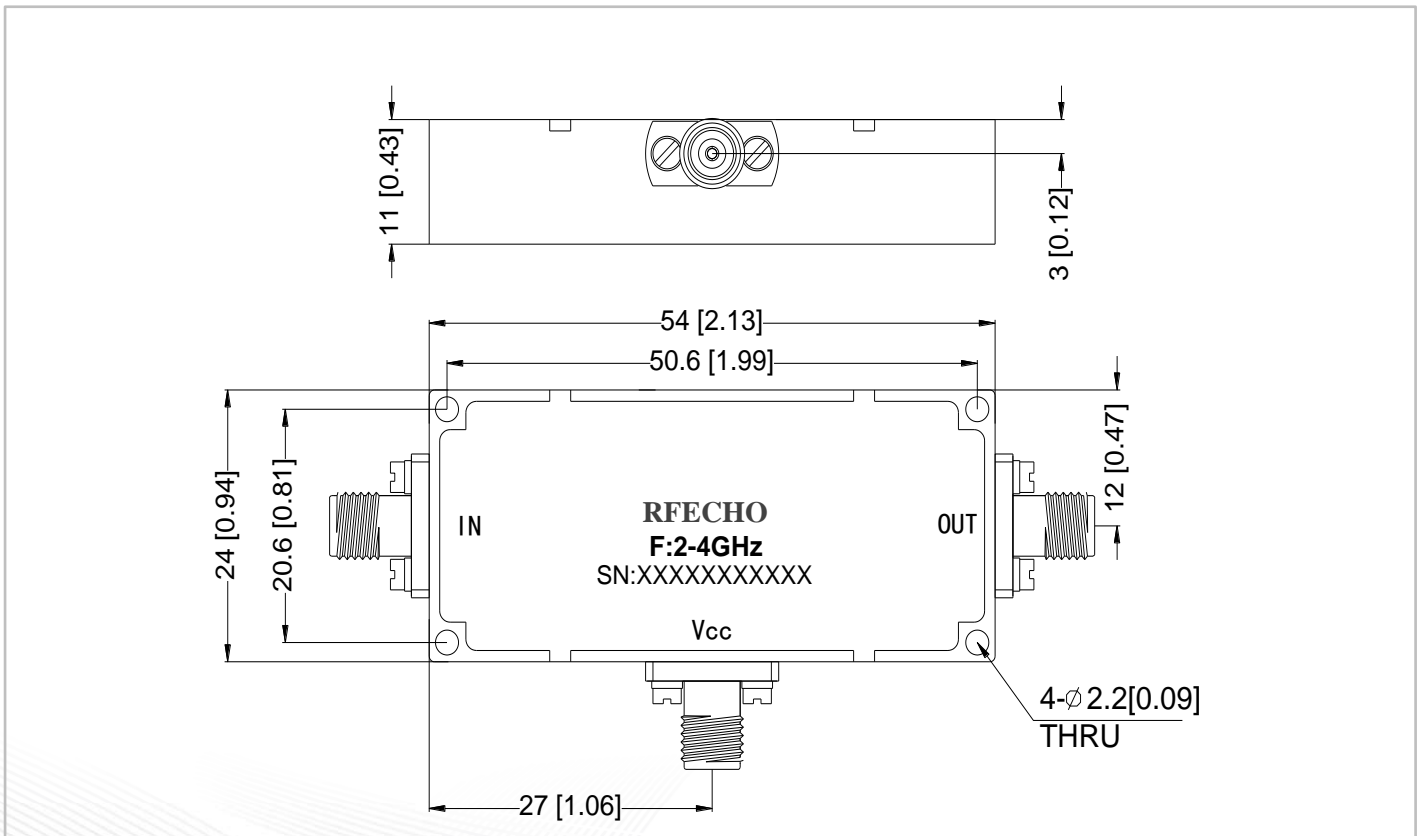
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH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

Ordering Information

Part No.	Description
DBVA3002000400A	2-4GHz Voltage Control Attenuator

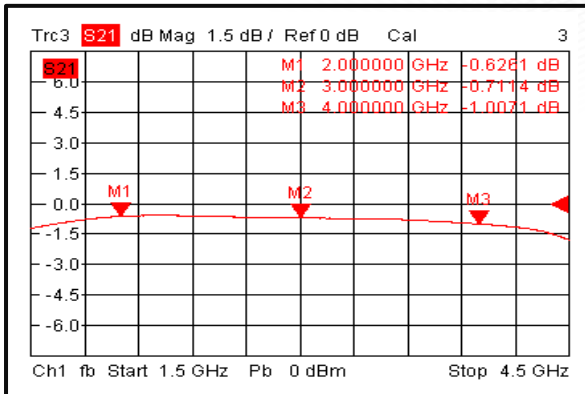
Outline Drawing:

All Dimensions in mm (inches)

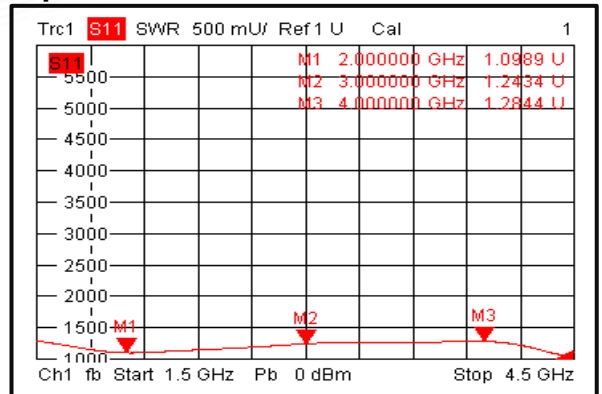




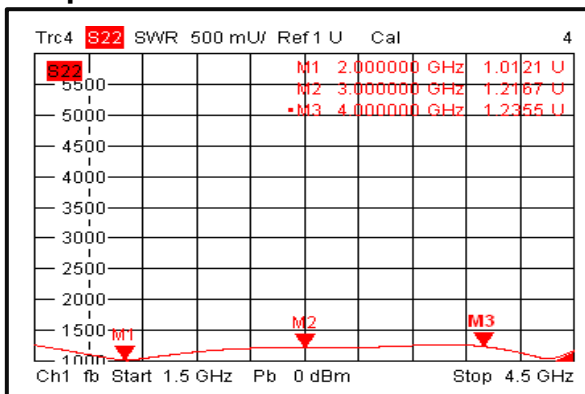
Insertion Loss @+25°C



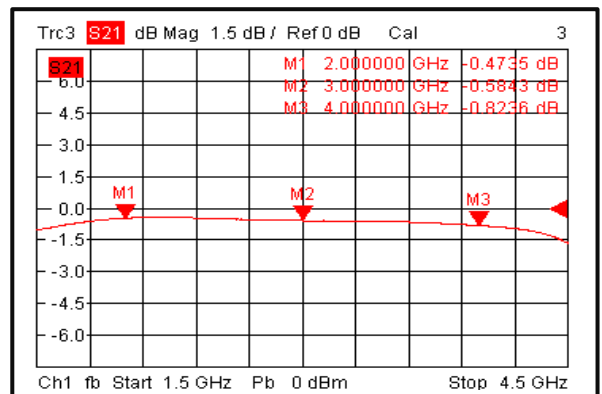
Input VSWR @+25°C



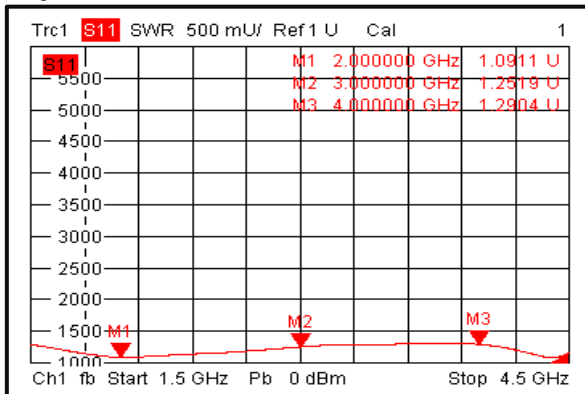
Output VSWR @+25°C



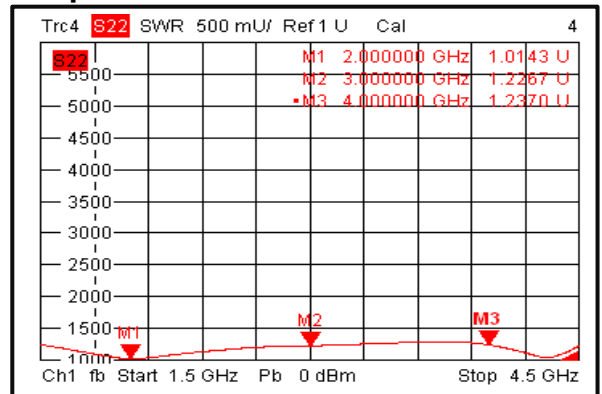
Insertion Loss @-40°C



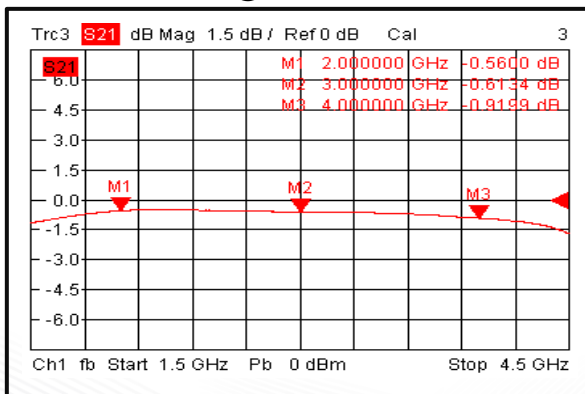
Input VSWR @-40°C



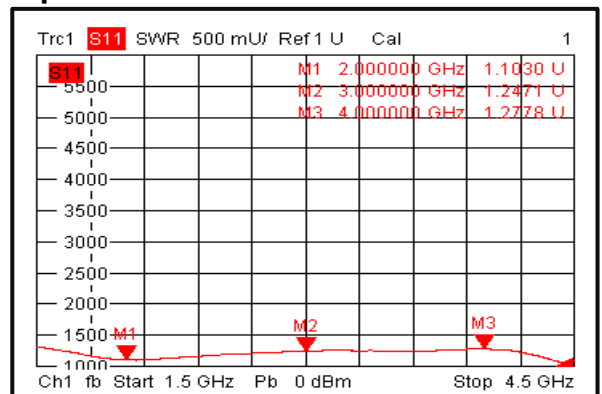
Output VSWR @-40°C



Insertion Loss @+85°C

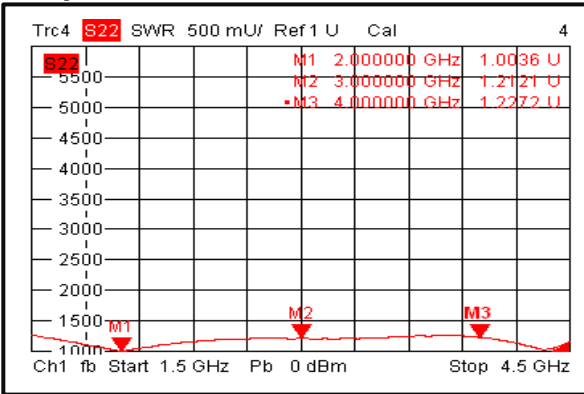


Input VSWR @+85°C

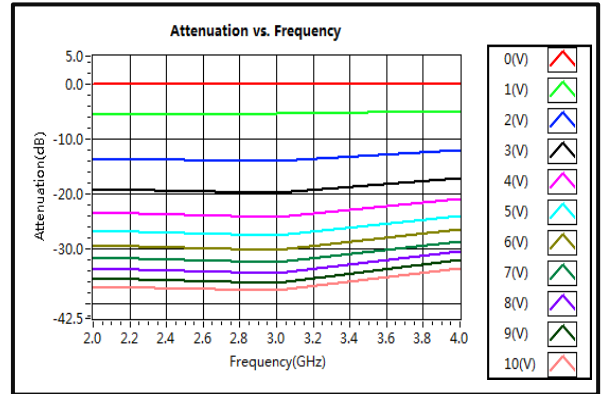




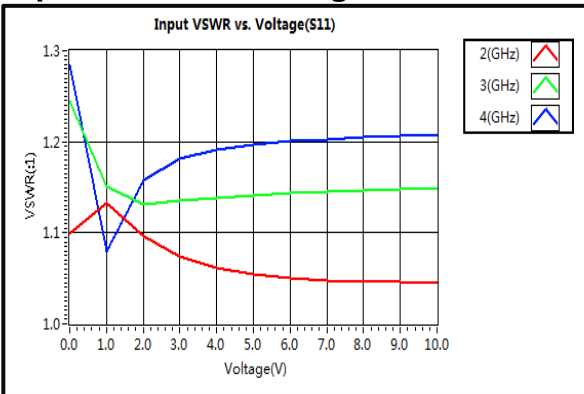
Output VSWR @+85°C



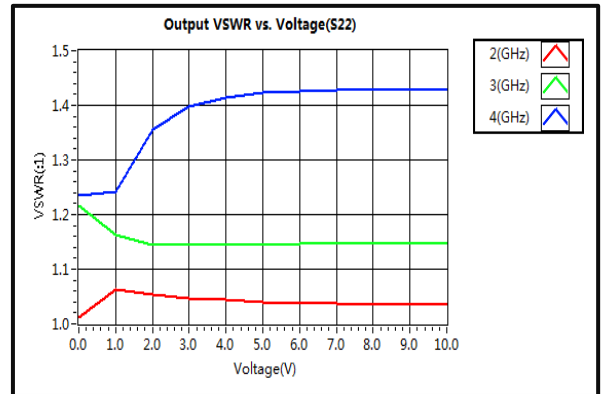
Attenuation vs. Frequency



Input VSWR vs. Voltage



Output VSWR vs. Voltage



Phase Shift vs. Frequency

