

Absorptive Voltage Control Attenuator 8-13GHz

Features

- Wide Band Operation 8-13GHz
- Wide Attenuation Range 50dB
- Reflective Topology
- Single Control Operation
- Customization available upon request



Parameters	Min	Typ.	Max	Units
Frequency Range	8-13			GHz
Attenuation Range	50			dB
Insertion Loss		1.5	1.8	dB
Insertion Loss Temperature Coefficient		0.003		dB/ °C
Input VSWR		1.3	1.5	: 1
Output VSWR		1.3	1.5	: 1
0.1 dB Compression		30		dBm
Input Ip3		43		dBm
Switching Speed			2.5	us
Control Voltage	0	10		V
Weight	0.35			ounces
Impedance	50			Ω
current	15			mA
Input /Output Connectors	SMA-Female			
Finish	Gold plated			
Material	Aluminum			
Sealed	Hermetically Sealed (optional)			



Absolute Maximum Ratings

Control Voltage	DC~ 15V
RF Input power	+30dBm

Environmental Specifications

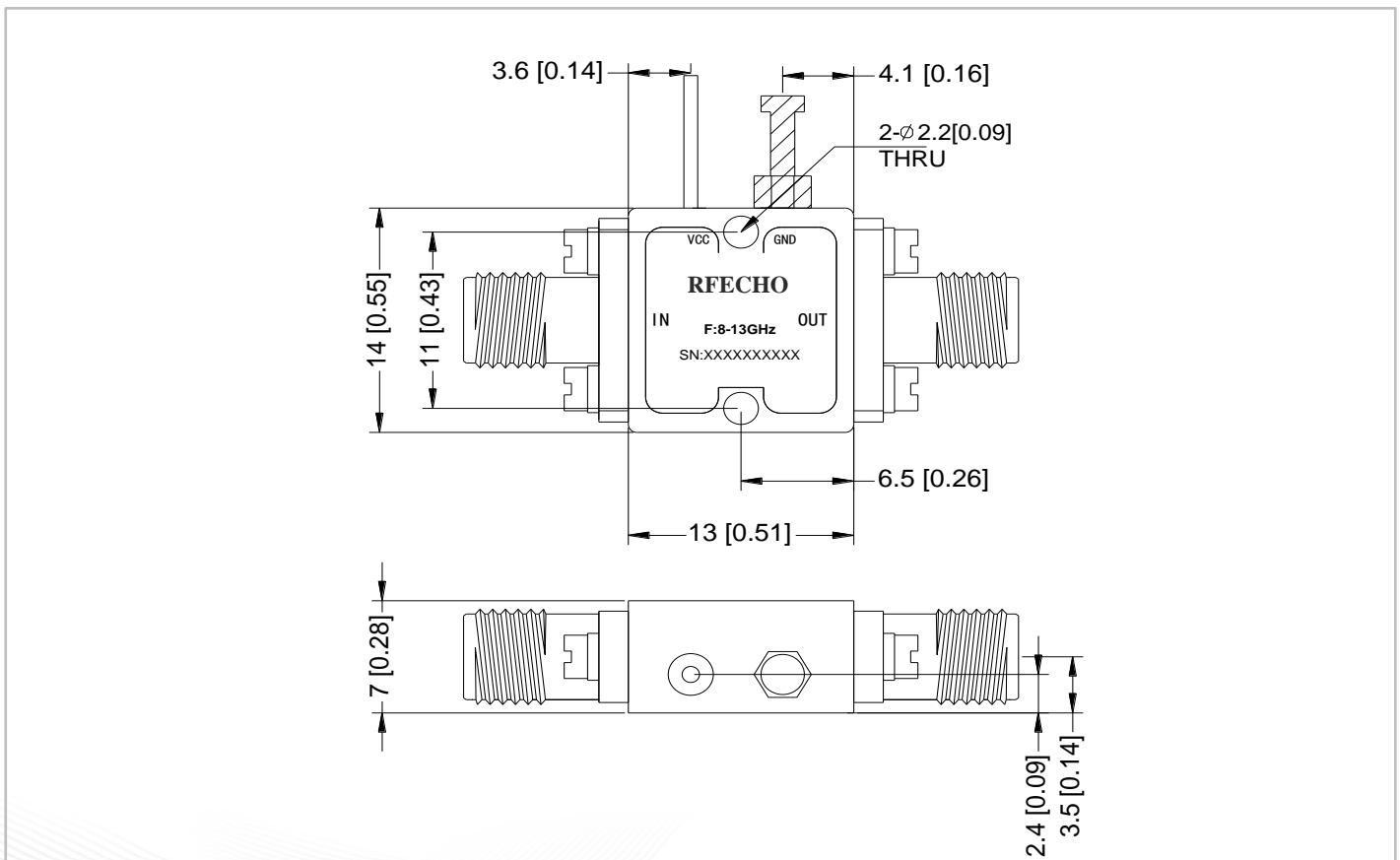
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH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

Ordering Information

Part No.	Description
DBVA5008001300A	8-13GHz Voltage Control Attenuator

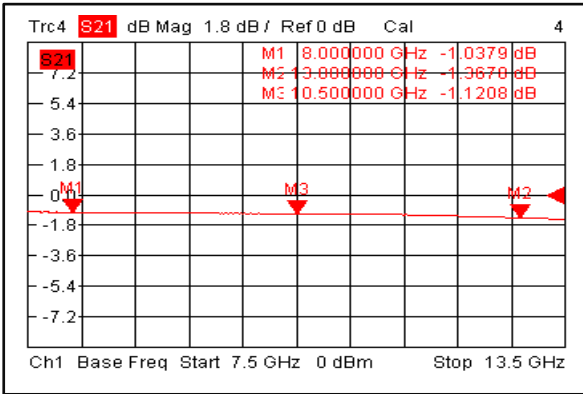
Outline Drawing:

All Dimensions in mm (inches)

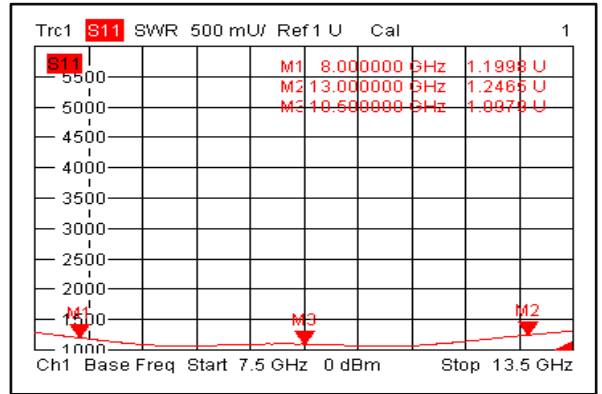




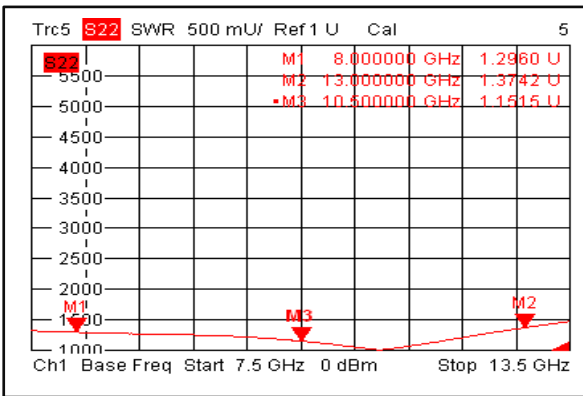
Insertion Loss @+25°C



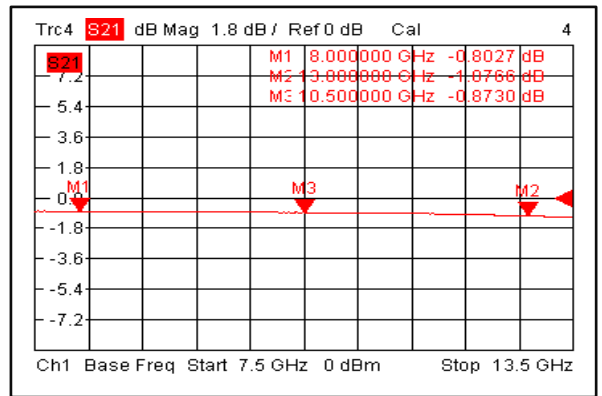
Input VSWR @+25°C



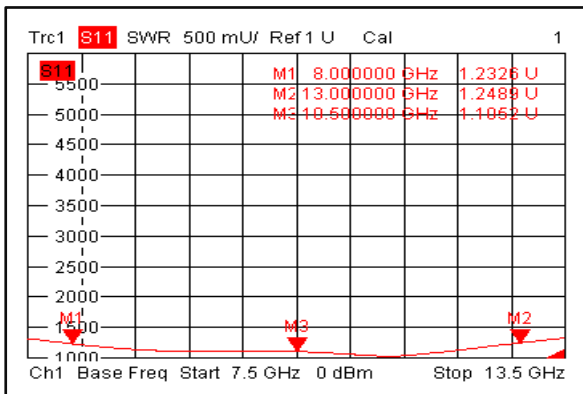
Output VSWR @+25°C



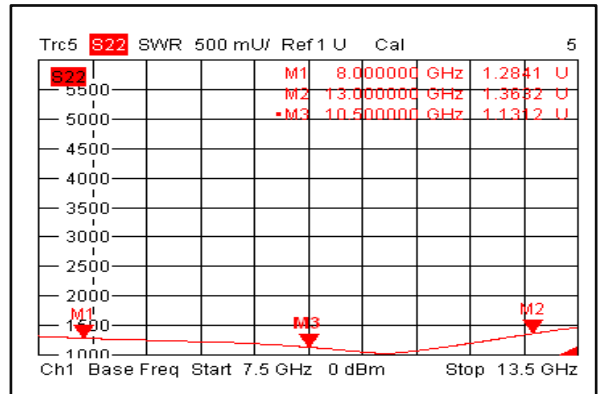
Insertion Loss @-40°C



Input VSWR @-40°C

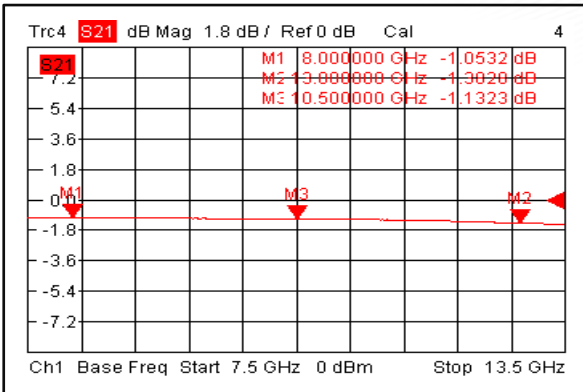


Output VSWR @-40°C

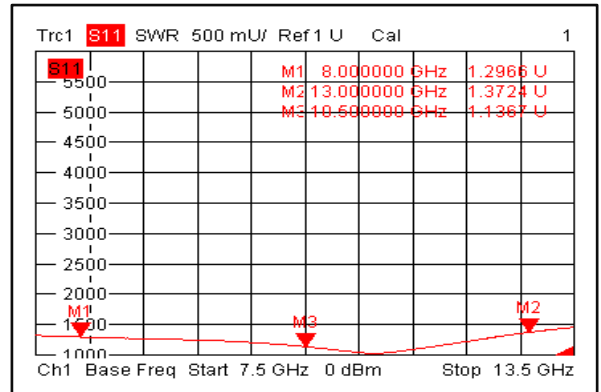




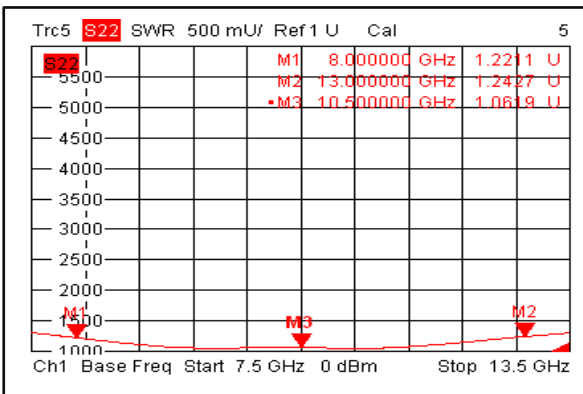
Insertion Loss @+85°C



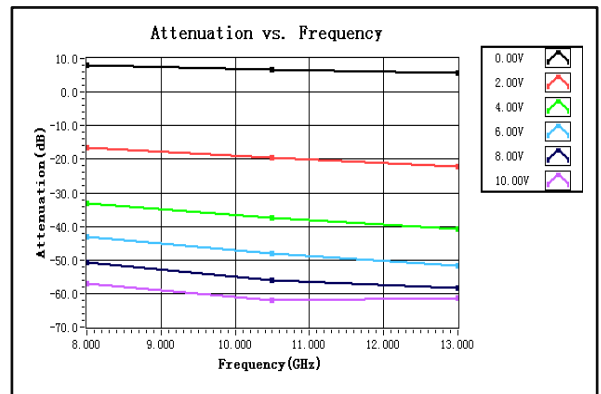
Input VSWR @+85°C



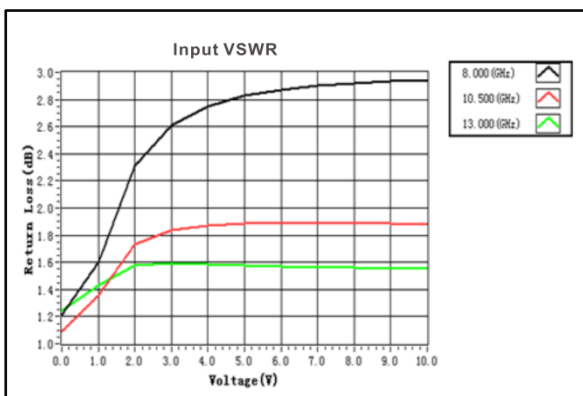
Output VSWR @+85°C



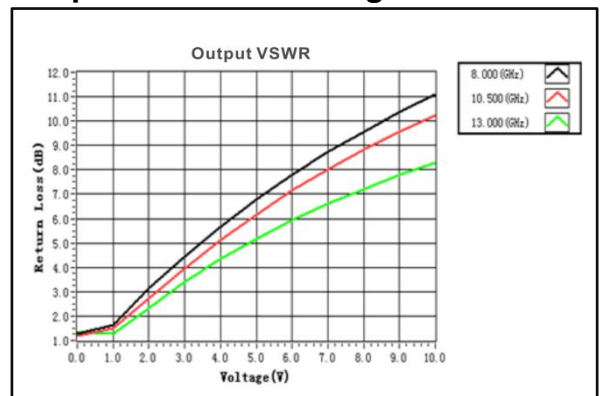
Attenuation vs. Frequency



Input VSWR vs. Voltage

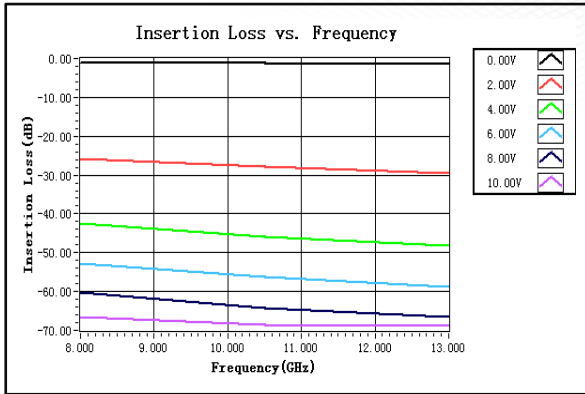


Output VSWR vs. Voltage

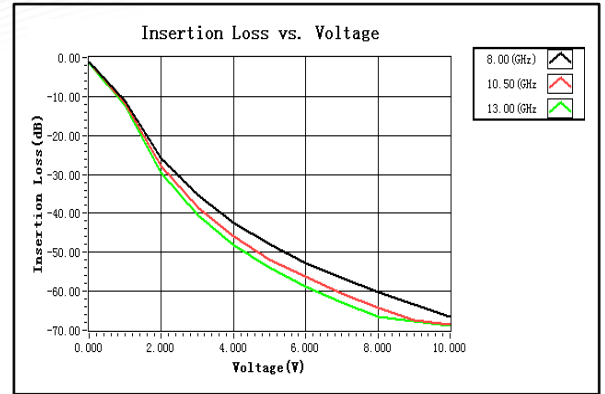




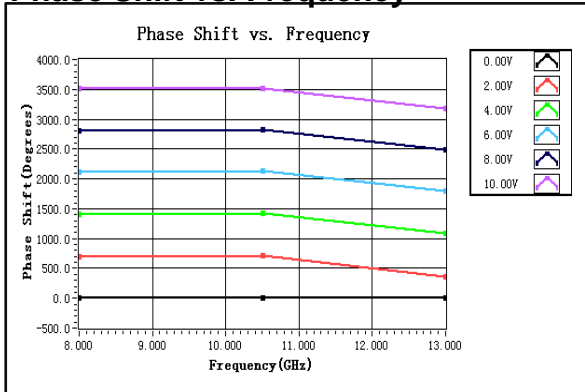
Insertion Loss vs. Frequency



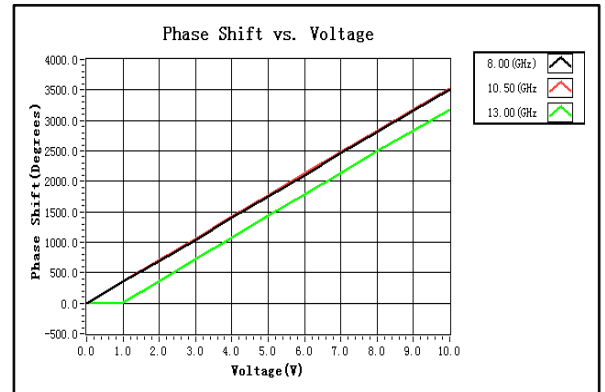
Insertion Loss vs. Voltage



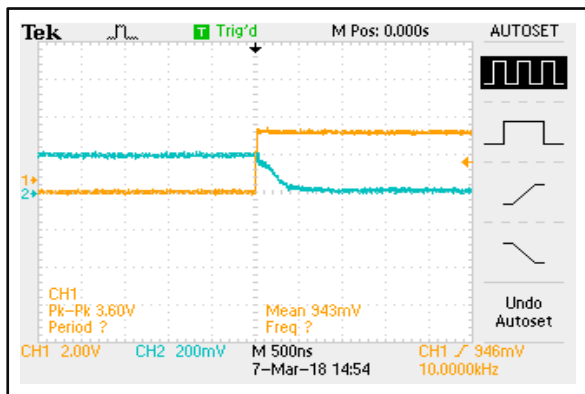
Phase Shift vs. Frequency



Phase Shift vs. Voltage



Speed



Speed

