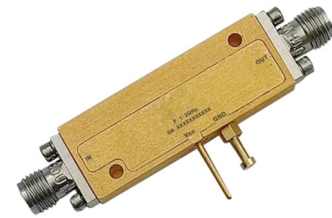




Reflective Voltage Control Attenuator 1 - 2GHz



Features

- Wide Band Operation 1-2GHz
- Wide Attenuation Range 50dB
- Reflective Topology
- Single Control Operation
- Customization available upon request

Parameters	Min	Typ.	Max	Units
Frequency Range	1-2			GHz
Attenuation Range	50			dB
Insertion Loss		0.7	0.8	dB
Insertion Loss Temperature Coefficient		0.003		dB/ °C
Input VSWR		1.2	1.4	: 1
Output VSWR		1.2	1.4	: 1
0.1dB Compression Point(P0.1dB)			30	dBm
Input Ip3		45		dBm
Switching Speed		10		us
Control Voltage	DC-10			V
current		40		mA
Weight		0.35		Ounces
Impedance		50		Ω
Input / Output Connectors	SMA-Female			
Finish	Gold Plated			
Material	Aluminum			
Sealing	Hermetically Sealed (Optional)			



Absolute Maximum Ratings

Control Voltage	DC ~ 13V
RF Input power	+32dBm

Ordering Information

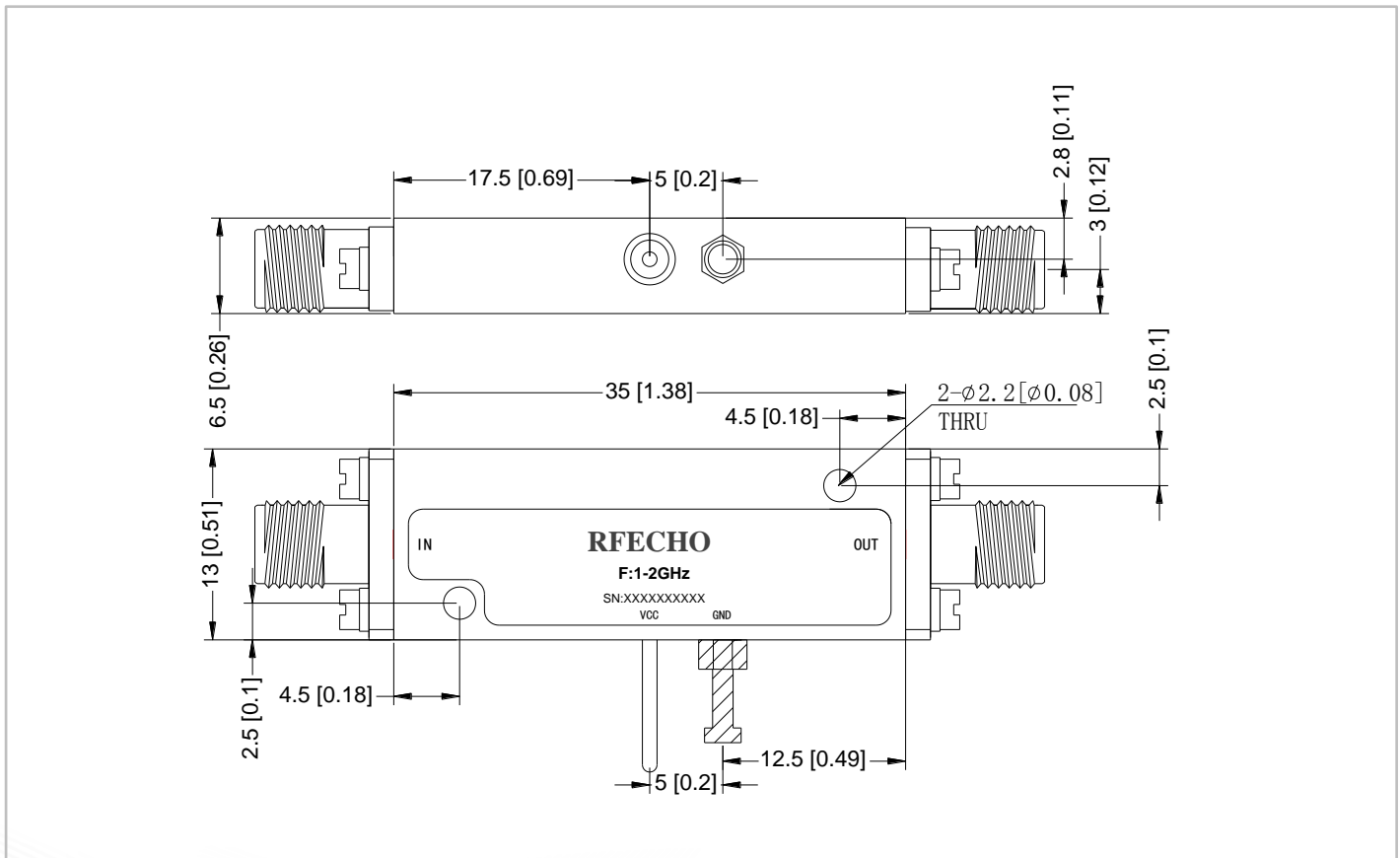
Part No.	Description
DBVA5001000200A	1-2GHz Voltage Control Attenuator

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 Uncontrolled 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

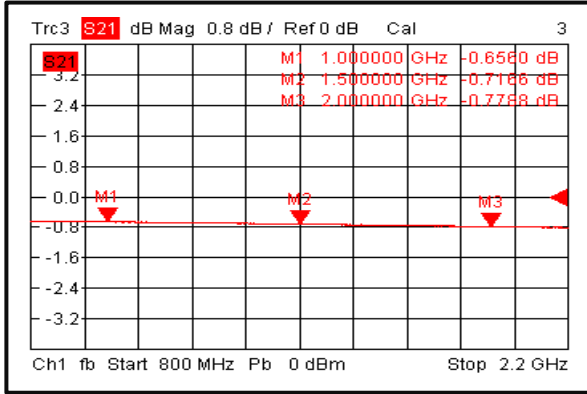
Outline Drawing:

All Dimensions in mm (inches)

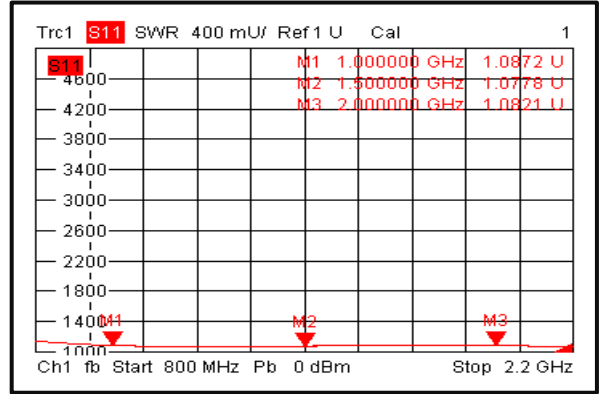




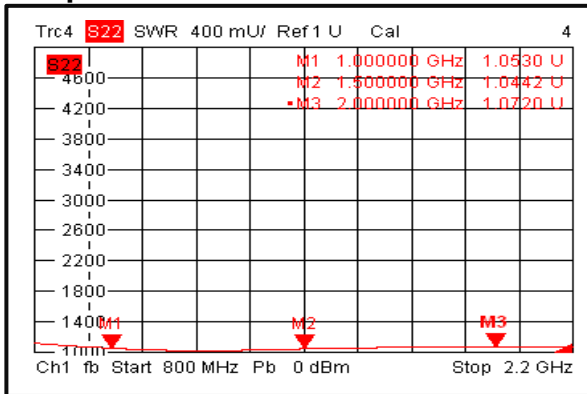
Insertion Loss @+25°C



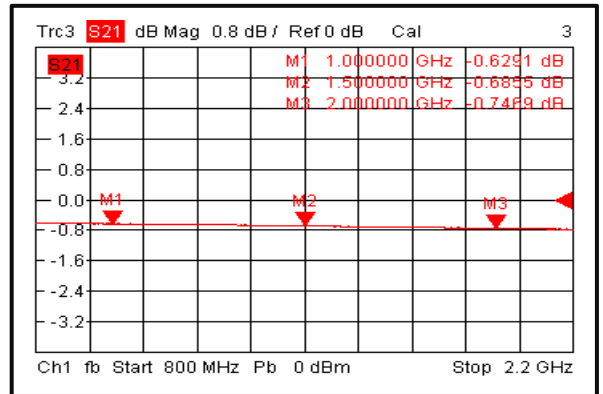
Input VSWR @+25°C



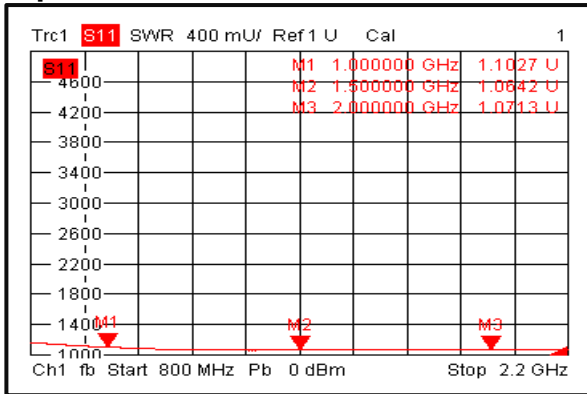
Output VSWR @+25°C



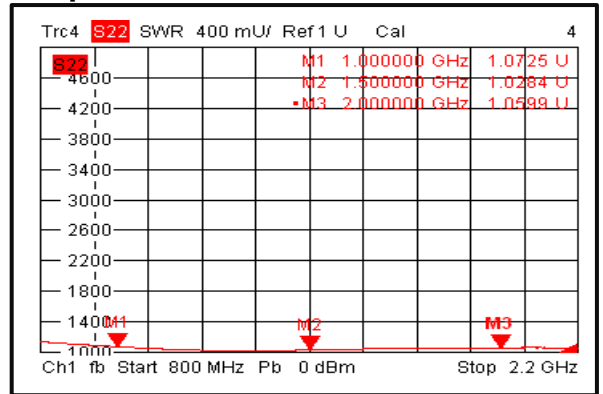
Insertion Loss @-40°C



Input VSWR @-40°C

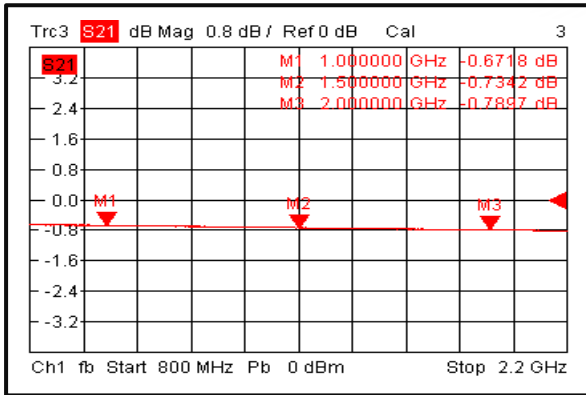


Output VSWR @-40°C

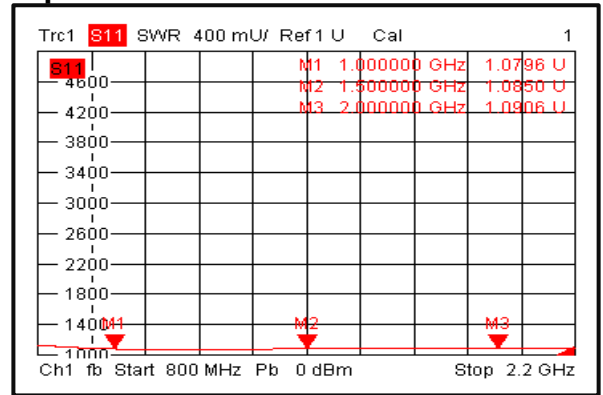




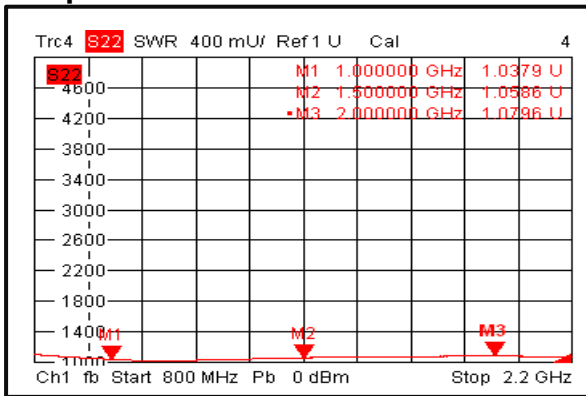
Insertion Loss @+85°C



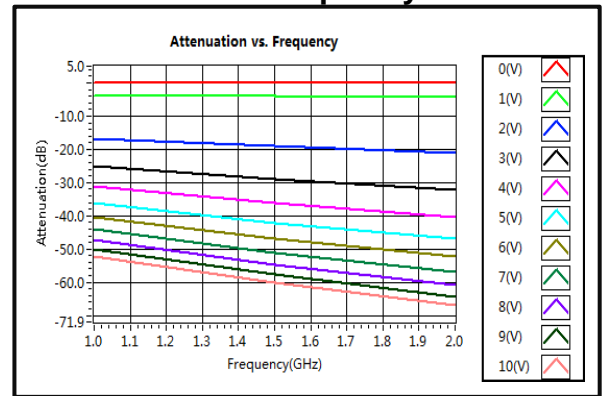
Input VSWR @+85°C



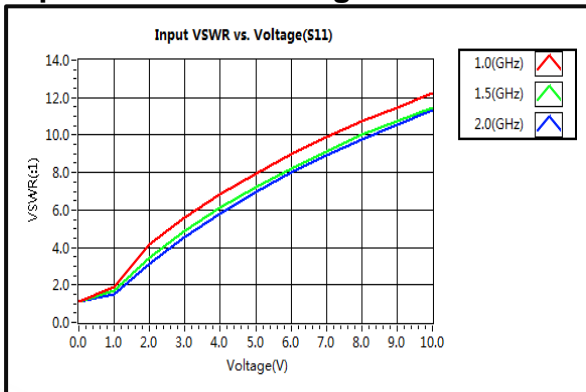
Output VSWR @+85°C



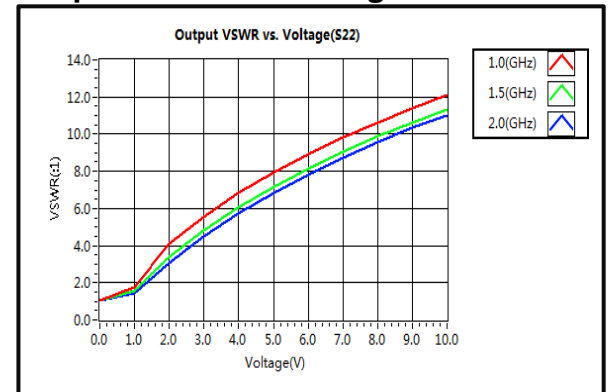
Attenuation vs. Frequency



Input VSWR vs. Voltage

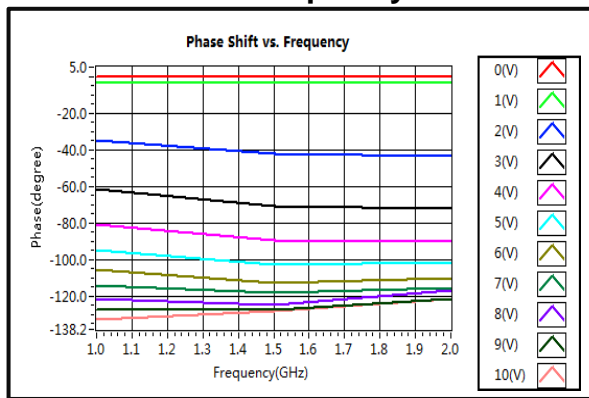


Output VSWR vs. Voltage

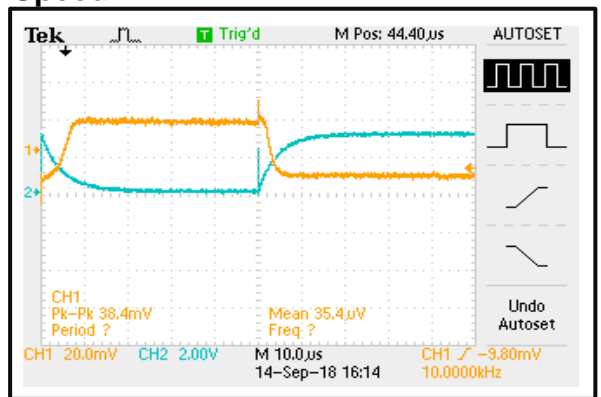




Phase Shift vs. Frequency



Speed



Speed

