



Absorptive Voltage Control Attenuator 4 - 8GHz

Features

- Wide Band Operation 4-8GHz
- Wide Attenuation Range 30dB
- Absorptive Topology
- Single Control Operation



Parameters	Min	Typ.	Max	Units
Frequency Range	4		8	GHz
Attenuation Range	30			dB
Insertion Loss		1.5	2.0	dB
Insertion Loss Temperature Coefficient		0.003		dB/ °C
Input VSWR		1.5	1.6	: 1
Output VSWR		1.5	1.6	: 1
0.1dB Compression Point(P0.1dB)		30		dBm
Input Ip3		35		dBm
Switching Speed		2.5		us
Control Voltage	0	10		V
Weight		1.41		ounces
Impedance		50		Ω
current		40		mA
Input / Output Connectors		SMA-Female		
Finish		Gold plating		
Material		Aluminum		
Sealing		Hermetically Sealed (optional)		



Absolute Maximum Ratings

Control Voltage	DC ~ +13V
RF Input power	+30 dBm

Environmental Specifications

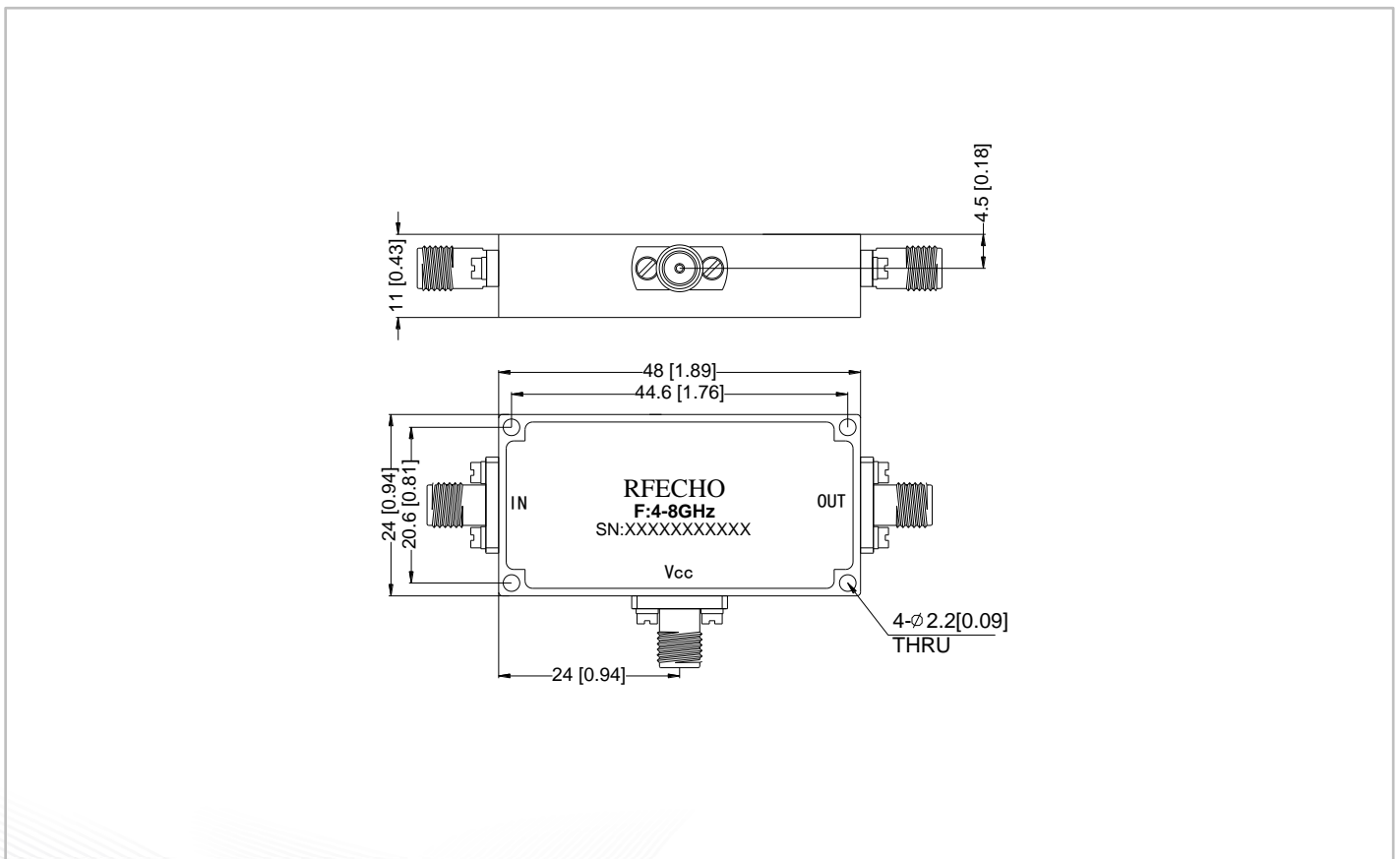
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH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

Ordering Information

Part No.	Description
DBVA3004000800B	4-8GHz Voltage Control Attenuator

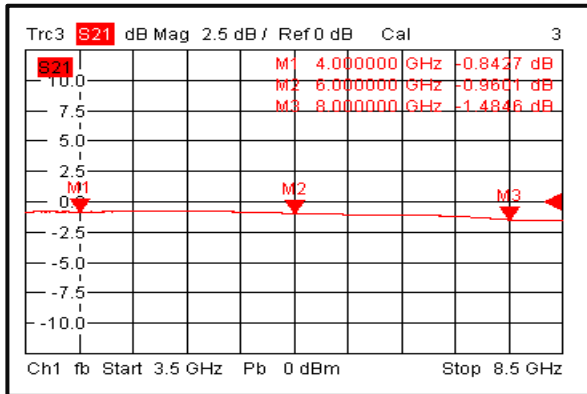
Outline Drawing:

All Dimensions in mm (inches)

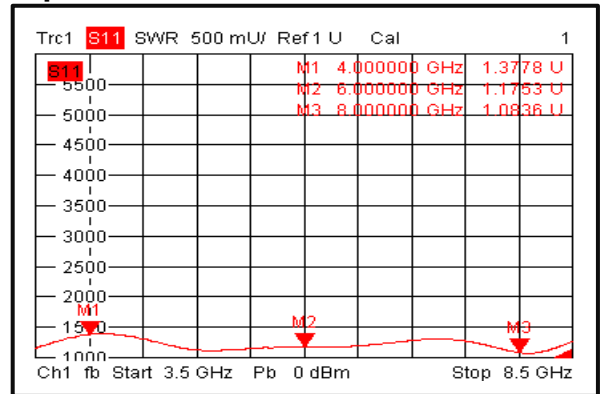




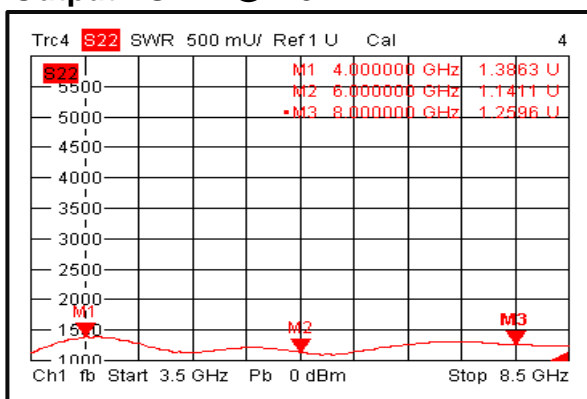
Insertion Loss @+25°C



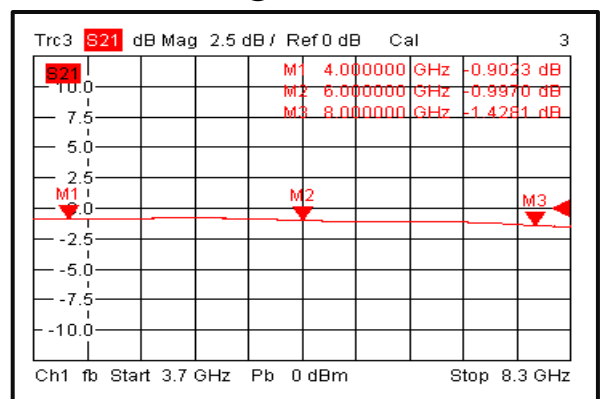
Input VSWR @+25°C



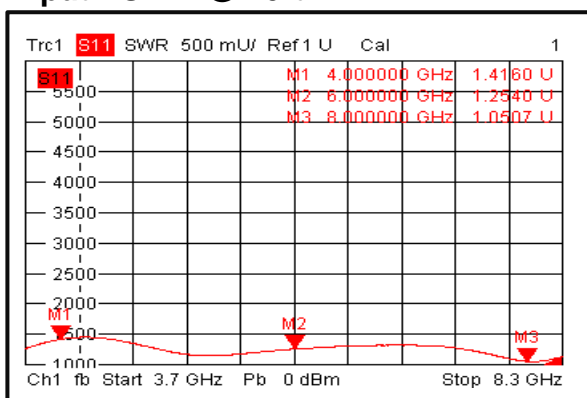
Output VSWR @+25°C



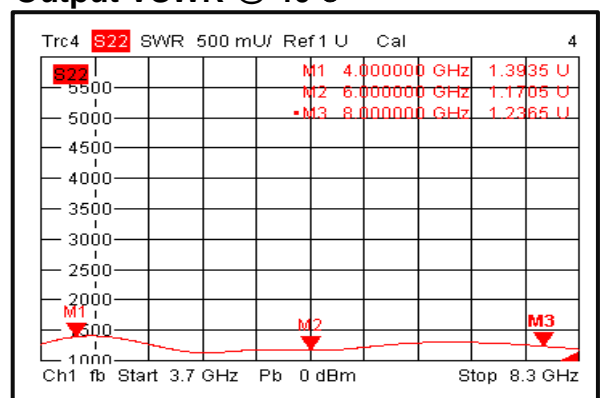
Insertion Loss @-40°C



Input VSWR @-40°C

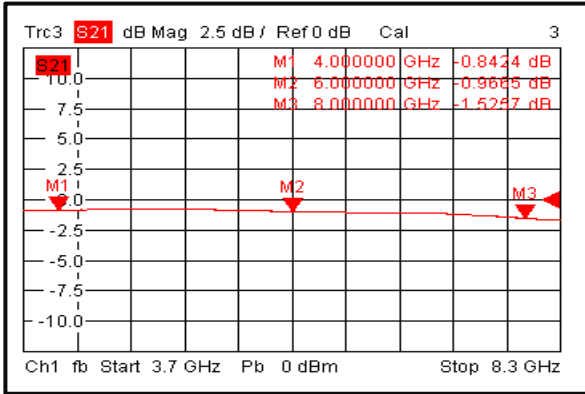


Output VSWR @-40°C

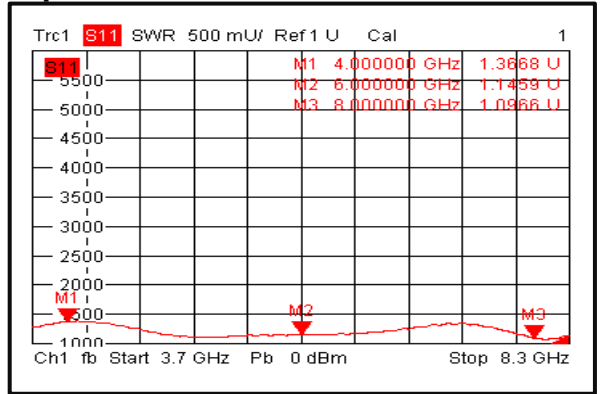




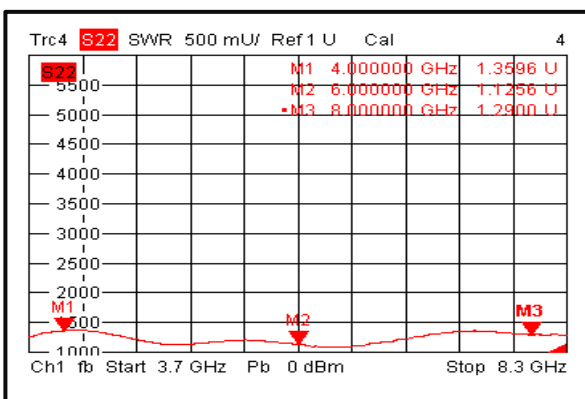
Insertion Loss @+85°C



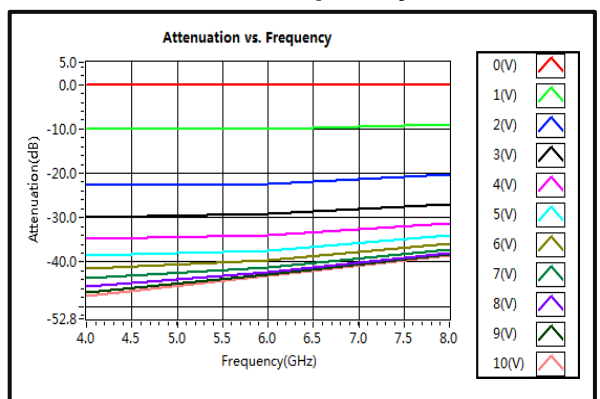
Input VSWR @+85°C



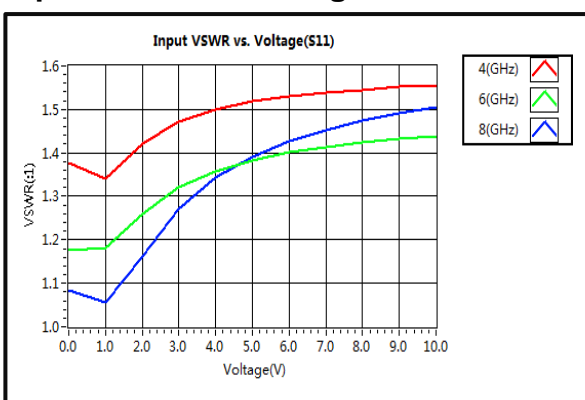
Output VSWR @+85°C



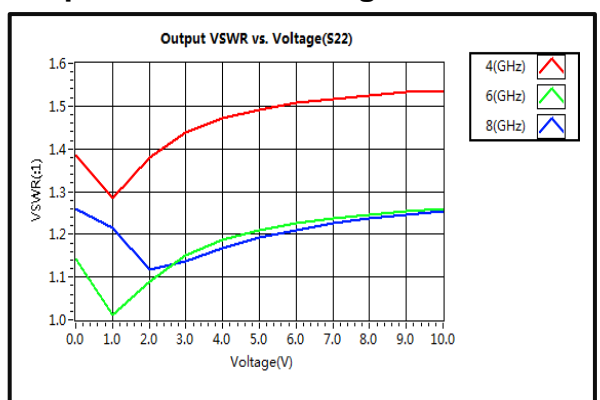
Attenuation vs. Frequency



Input VSWR vs. Voltage

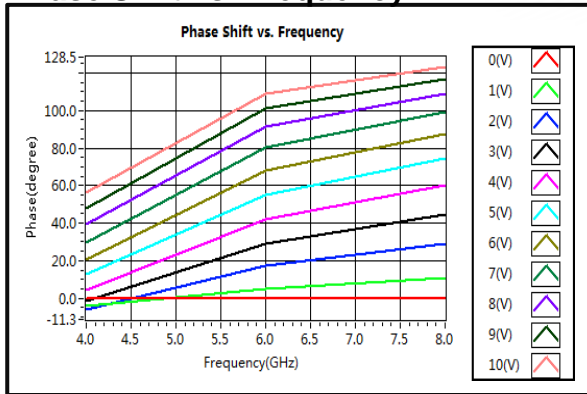


Output VSWR vs. Voltage

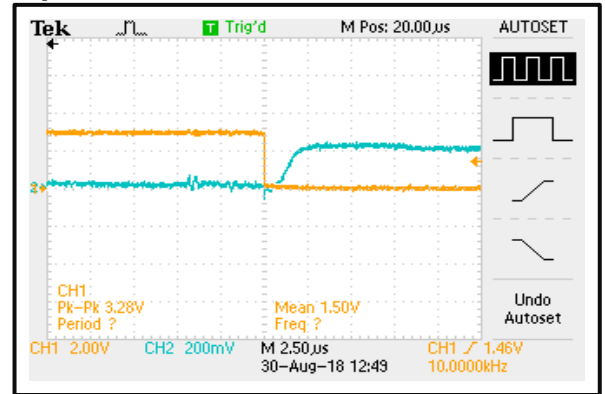




Phase Shift vs. Frequency



Speed



Speed

