



Absorptive Voltage Control Attenuator 2-18GHz

Features

- Wide Band Operation 2-18GHz
- Wide Attenuation Range 30dB
- Absorptive Topology
- Single Control Operation
- Customization available upon request



Parameters	Min	Typ.	Max	Units
Frequency Range		2~ 18		GHz
Attenuation Range		30		dB
Insertion Loss		3.9	4.5	dB
Insertion Loss Temperature Coefficient		0.01		dB/ °C
Input VSWR		1.5	1.8	: 1
Output VSWR		1.5	1.8	: 1
0.1dB Compression Point (P0.1dB)		30		dBm
Input Ip3		43		dBm
Switching Speed			2.5	us
Control Voltage	0	10		V
Weight		1.2		ounces
Impedance		50		Ω
Current		15		mA
Input / Output Connectors		SMA-Female		
Finish		Gold plated		
Material		copper		
Sealing		Hermetically Sealed (optional)		



Absolute Maximum Ratings

Control Voltage	0~ 13V
RF Input power	+30dBm

Environmental Specifications

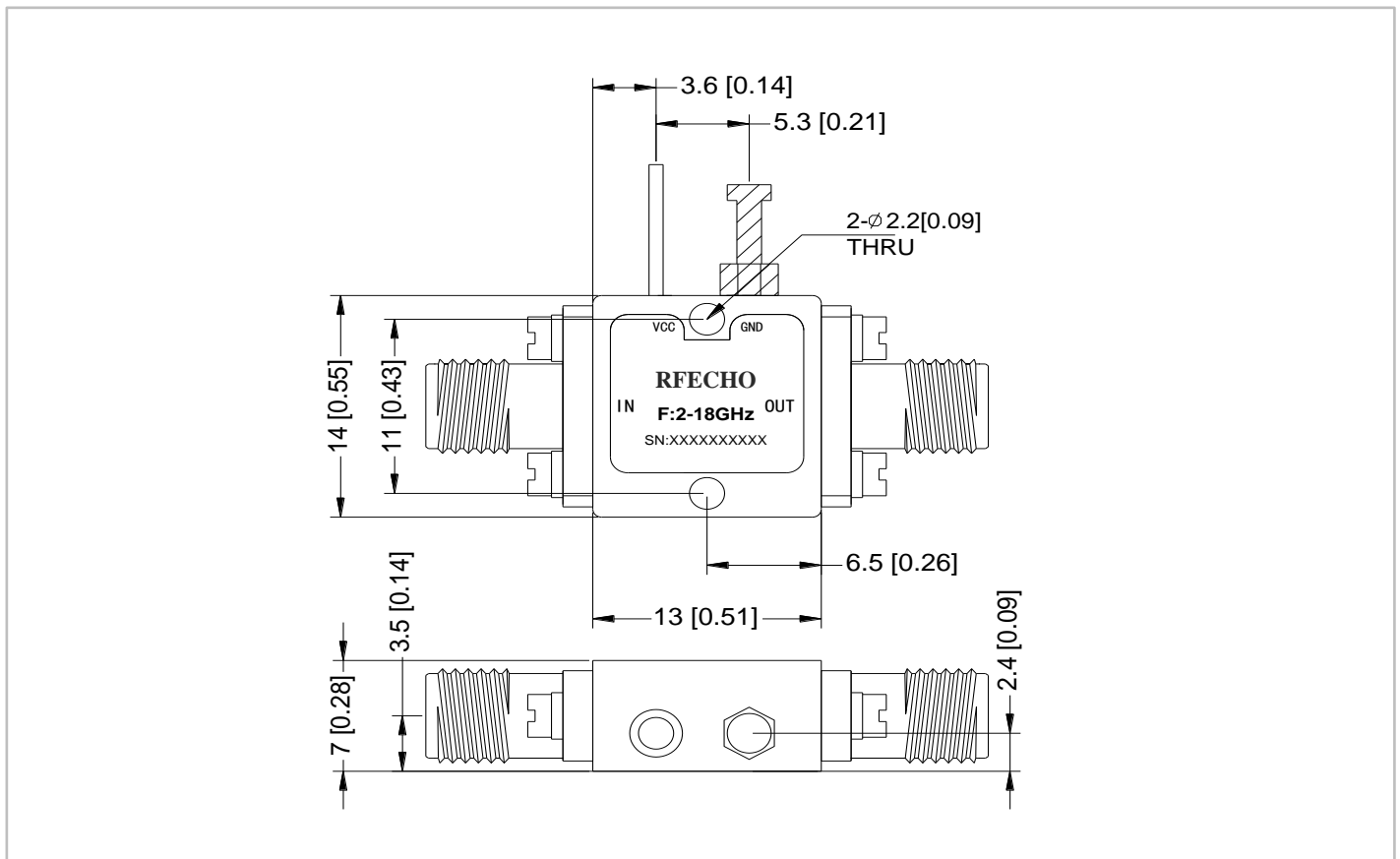
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH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

Ordering Information

Part No.	Description
DBVA3002001800B	2-18GHz Voltage Control Attenuator

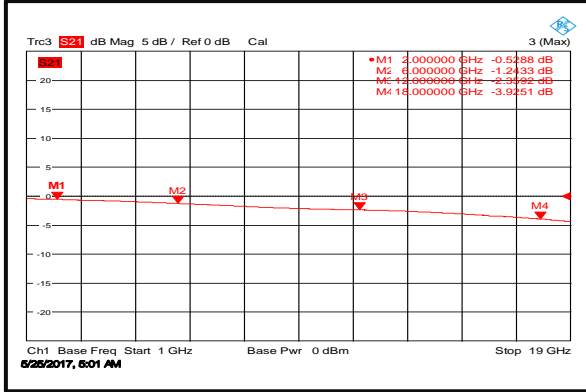
Outline Drawing:

All Dimensions in mm (inches)

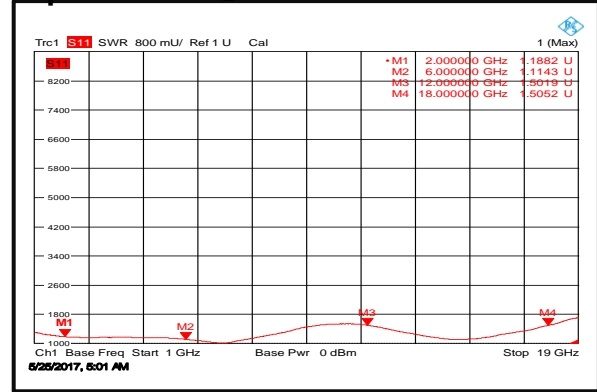




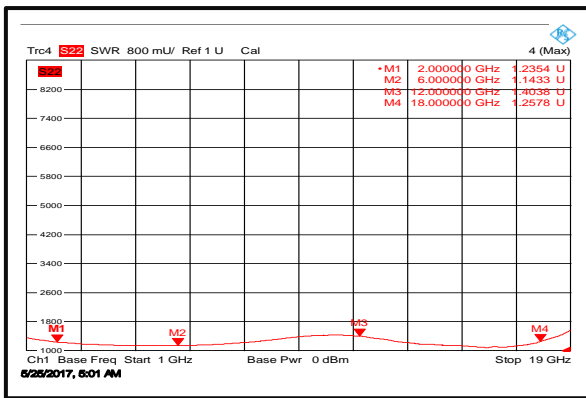
Insertion Loss @+25°C



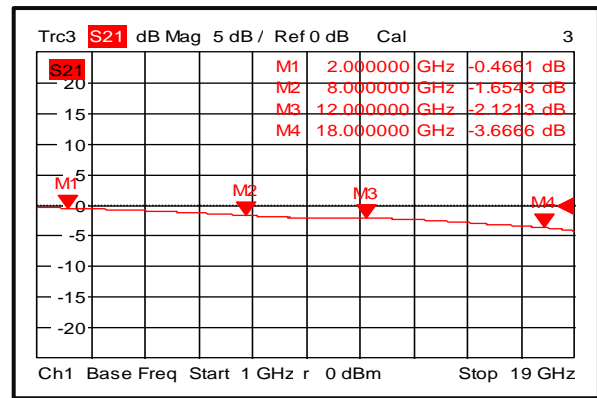
Input VSWR @+25°C



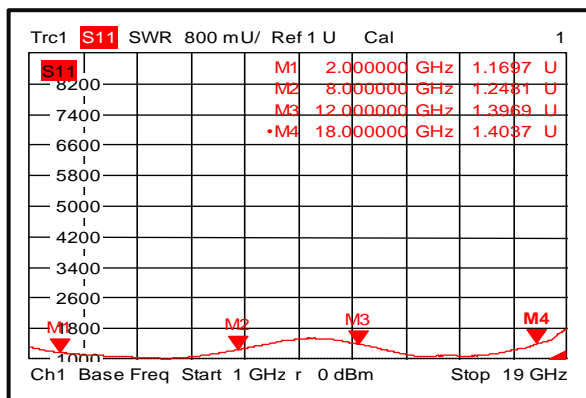
Output VSWR @+25°C



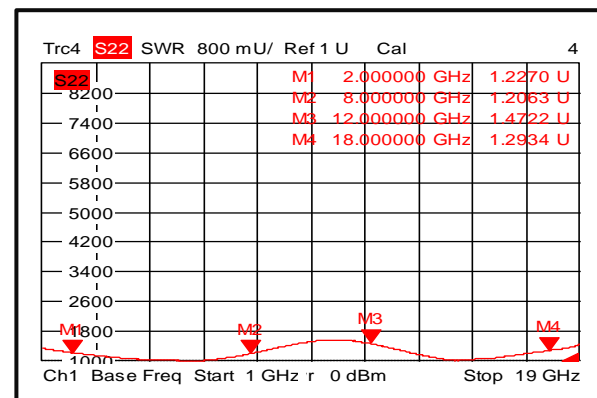
Insertion Loss @-40°C



Input VSWR @-40°C

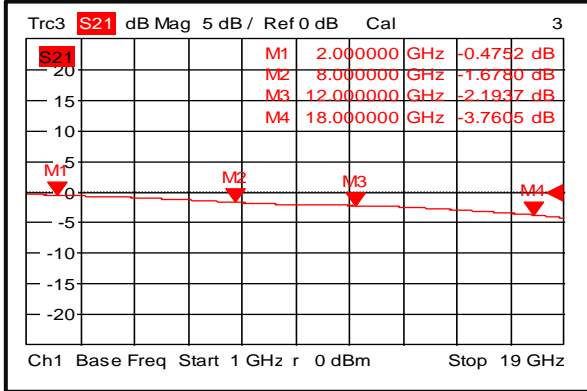


Output VSWR @-40°C

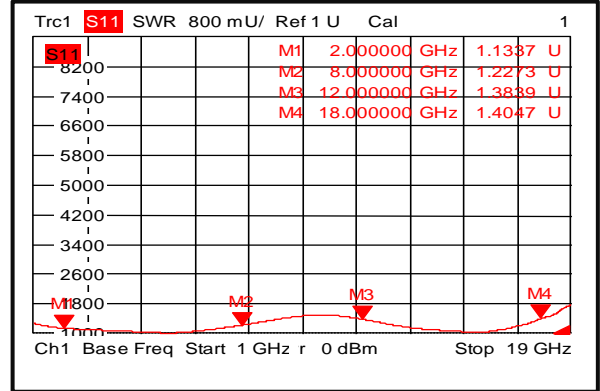




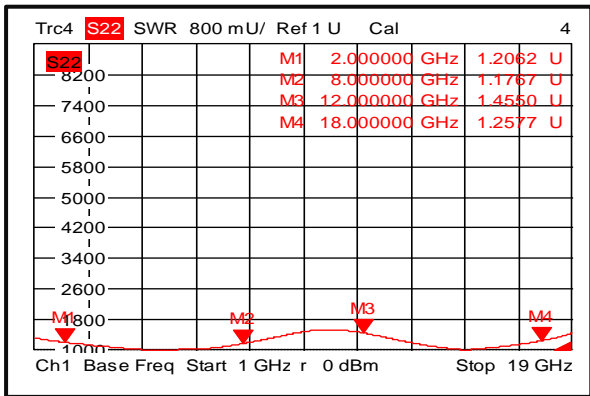
Insertion Loss @+85°C



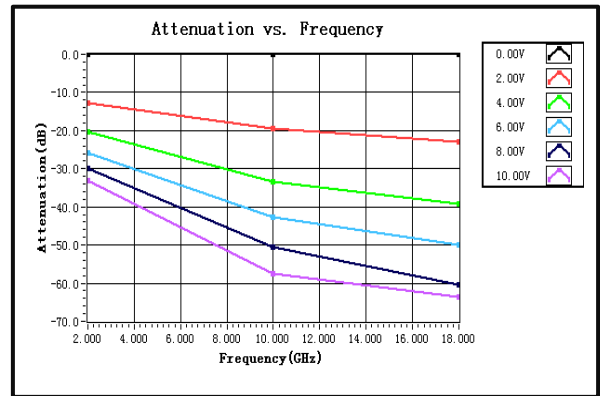
Input VSWR @+85°C



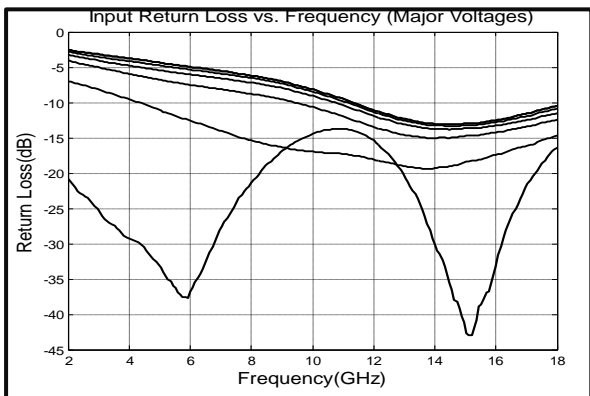
Output VSWR @+85°C



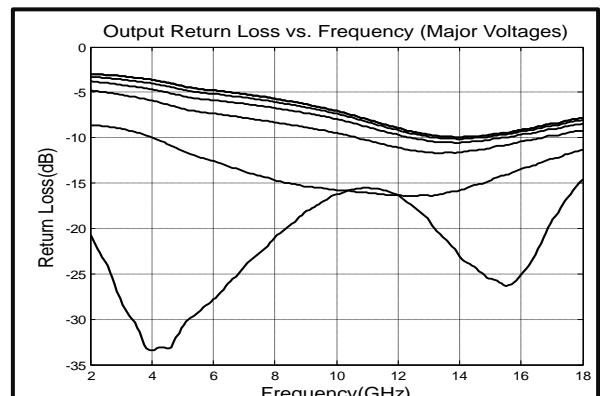
Attenuation vs. Frequency



Input Return Loss vs. Frequency

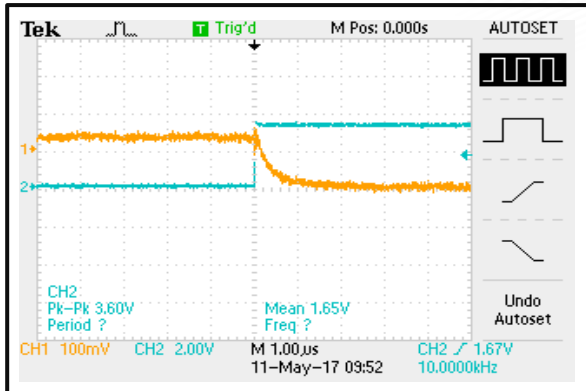


Output Return Loss vs. Frequency

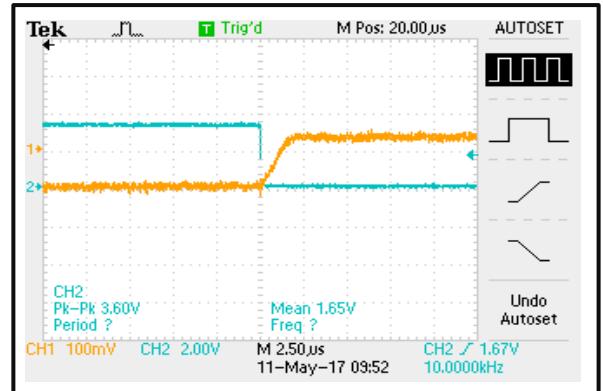




Speed



Speed



Phase Shift vs. Frequency

