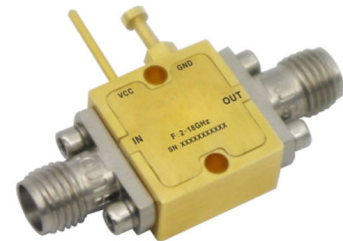




# Absorptive Voltage Control Attenuator 2-18GHz



## Features

- Wide Band Operation 2-18GHz
- Wide Attenuation Range 50dB
- Absorptive Topology
- Single Control Operation
- Customization available upon request

Parameters	Min	Typ.	Max	Units
Frequency Range	2		18	GHz
Attenuation Range	50			dB
Insertion Loss		2.0	3.0	dB
Insertion Loss Temperature Coefficient		0.01		dB/ °C
Input VSWR		1.5	2.0	: 1
Output VSWR		1.5	2.0	: 1
0.1dB Compression Point (P0.1dB)		30		dBm
Input IP3		43		dBm
Control Voltage	0	10		V
Switching Speed	2.5 Max.			us
Weight	0.3 Max.			ounces
Impedance	50			Ω
current	30			mA
Input / Output Connectors	SMA-Female			
Finish	Gold plated			
Material	Copper			
Sealing	Hermetically Sealed (Optional)			



### Absolute Maximum Ratings

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

### Environmental Specifications

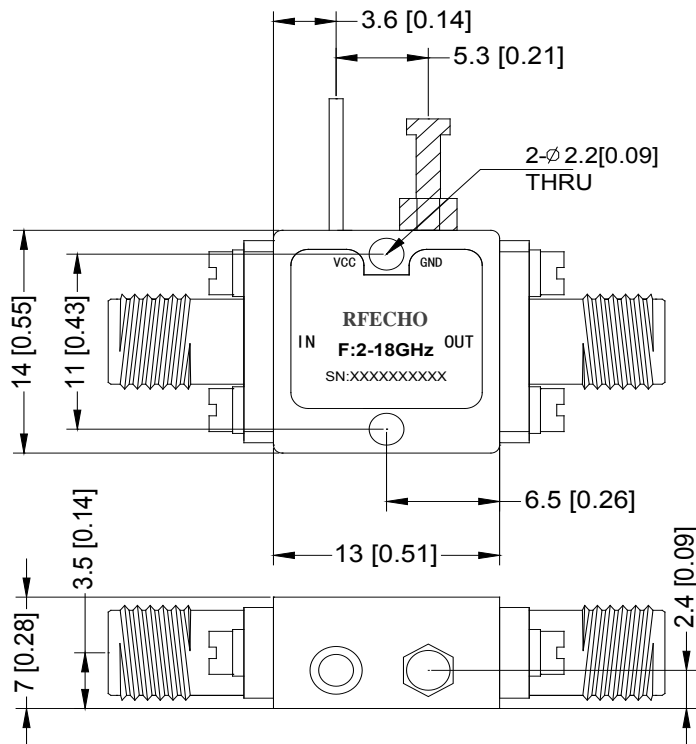
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH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

### Ordering Information

Part No.	Description
DBVA5002001800F	2-18GHz Voltage Control Attenuator

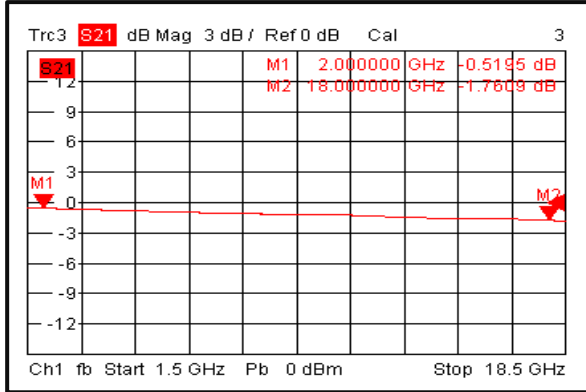
### Outline Drawing:

All Dimensions in mm (inches)

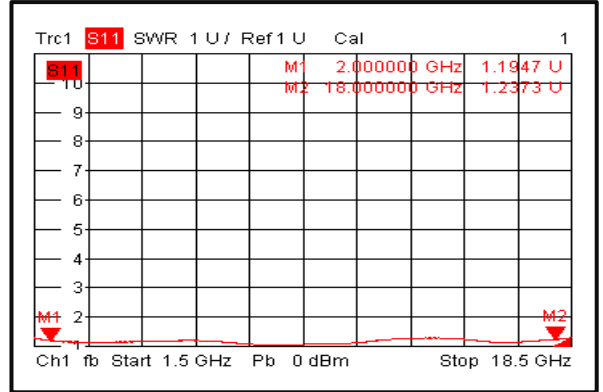




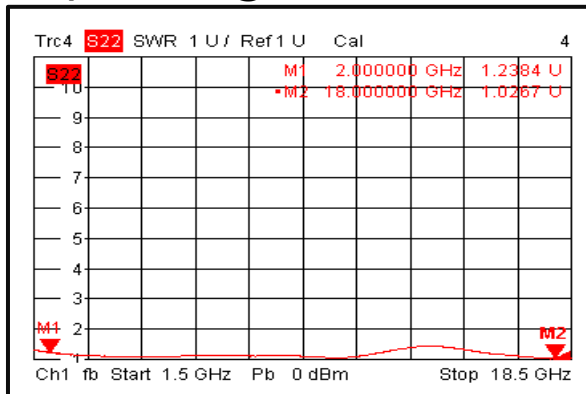
### Insertion Loss@+25°C



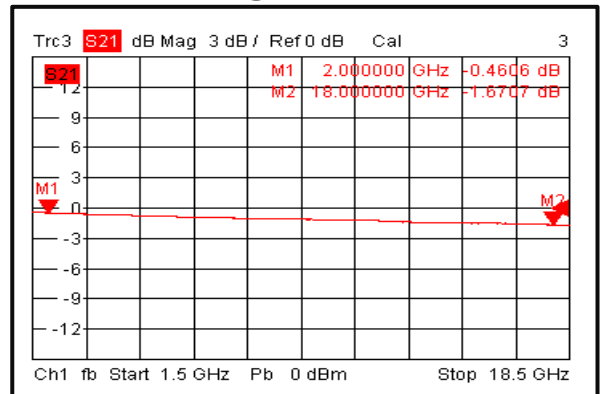
### Input VSWR @+25°C



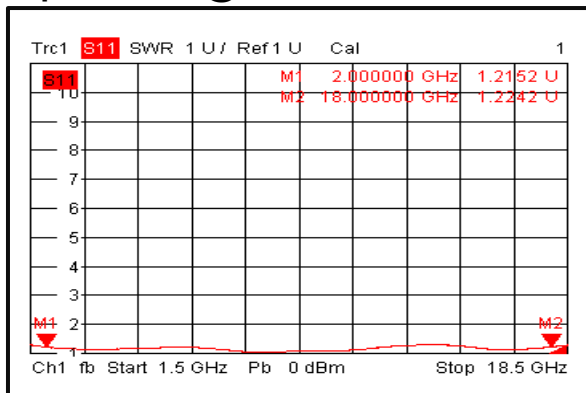
### Output VSWR @+25°C



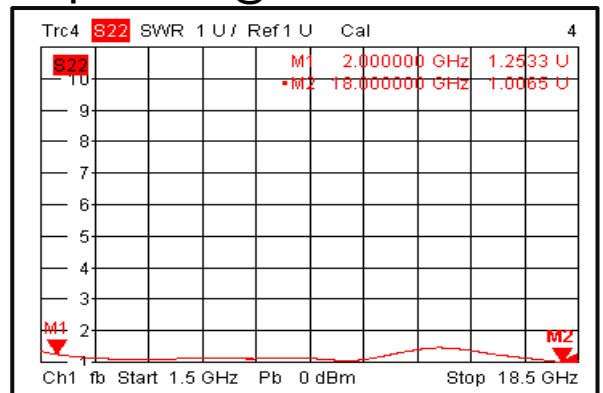
### Insertion Loss @-40°C



### Input VSWR @-40°C

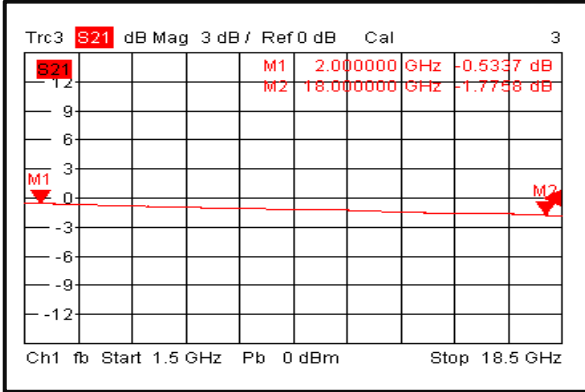


### Output VSWR @-40°C

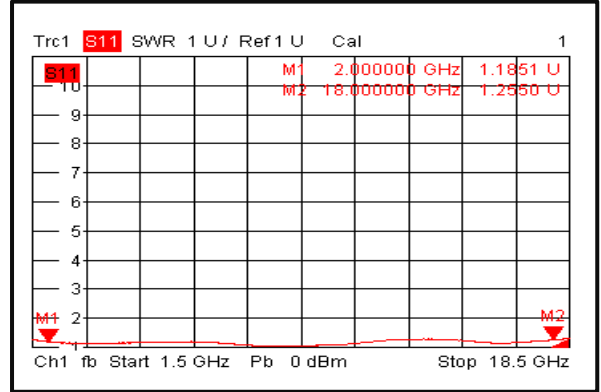




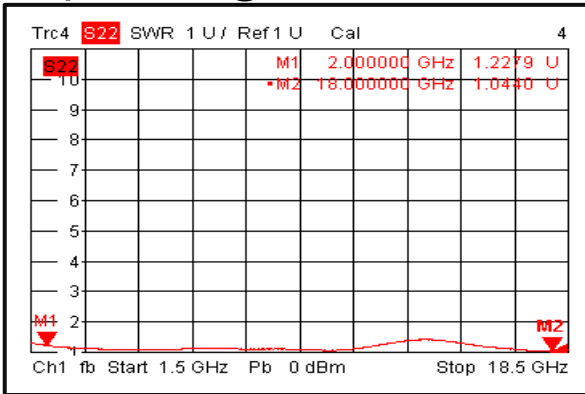
### Insertion Loss@+80°C



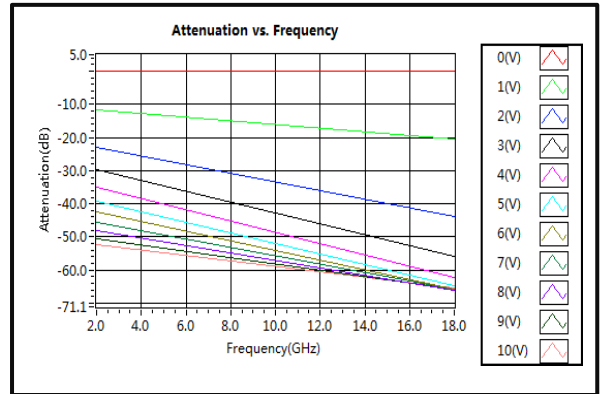
### Input VSWR @+80°C



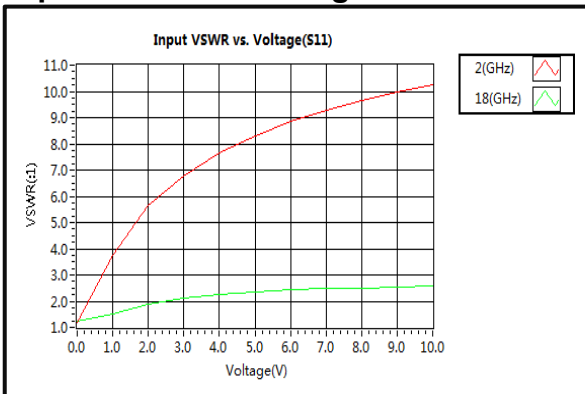
### Output VSWR @+85°C



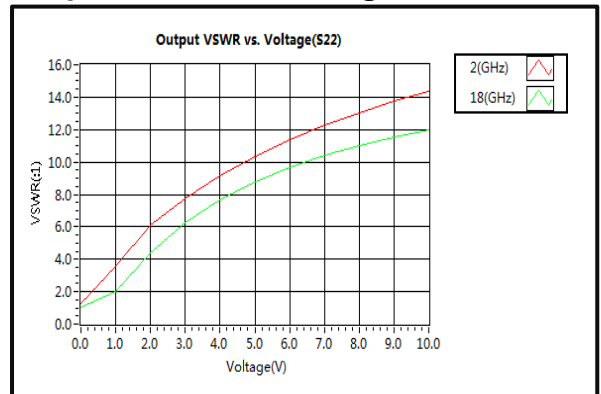
### Attenuation vs. Frequency



### Input VSWR vs. Voltage

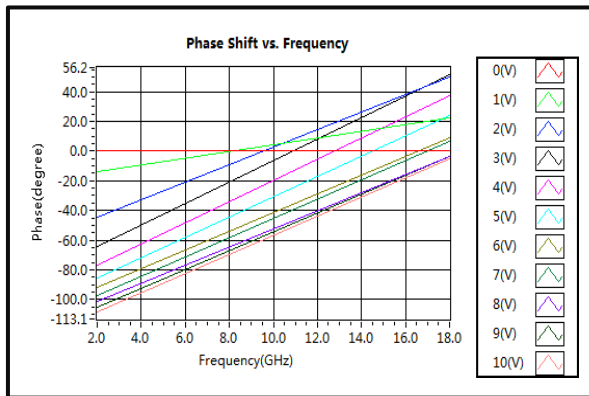


### Output VSWR vs. Voltage

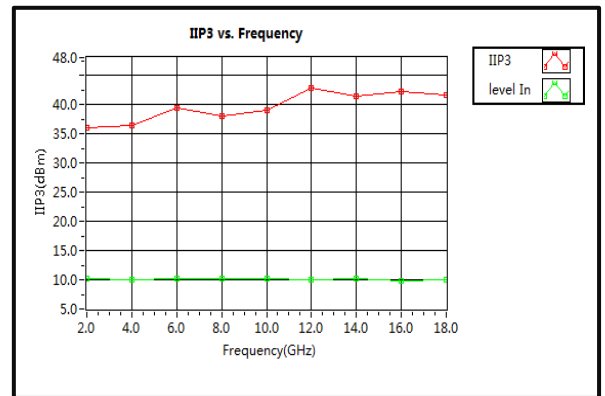




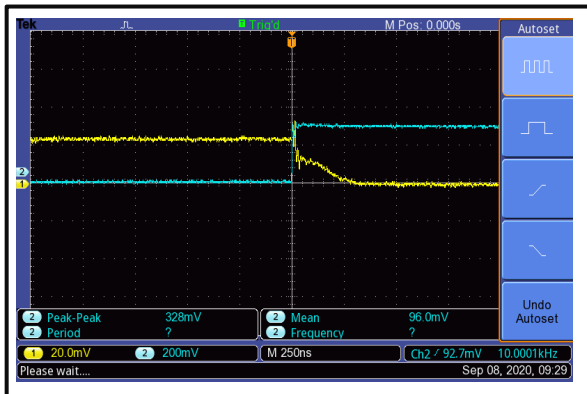
### Phase Shift vs. Frequency



### IIP3



### Speed



### Speed

