Reflective Voltage Control Attenuator 2-18GHz

Features

- Wide Band Operation 2-18GHz
- Wide Attenuation Range 50dB
- Single Voltage Control
- Low Insertion Loss
- Customization available upon request

Parameters	Min.	Typ.	Max.	Units
Frequency Range	2		18	GHz
Attenuation Range		50		dB
Insertion Loss		1.4	1.8	dB
Insertion Loss Temperature Coefficient		0.003		dB / °C
Input VSWR		1.5	1.8	: 1
Output VSWR		1.5	1.8	: 1
Input Power (CW)			5	w
Peak Power(1us wide, 0.1% Duty Cycle)			75	w
0.1dB Compression Point (P0.1dB)		37		dBm
Input IP3		45		dBm
Switching Speed	5 Typ.			us
Control Voltage	0	10		V
Input Control Current	15 Max.			mA
Weight	0.75 Max.			Ounces
Impedance	50			Ω
Input / Output Connectors	SMA - Female			
Control Input Connector	SMC – Male			
Finish	Gold Plated			
Material	Aluminum			
Sealing	Hermetically Sealed (Optional)			

Absolute Maximum Ratings

Control Voltage	0~13V
RF Input power	+37.5dBm

Environmental Specifications

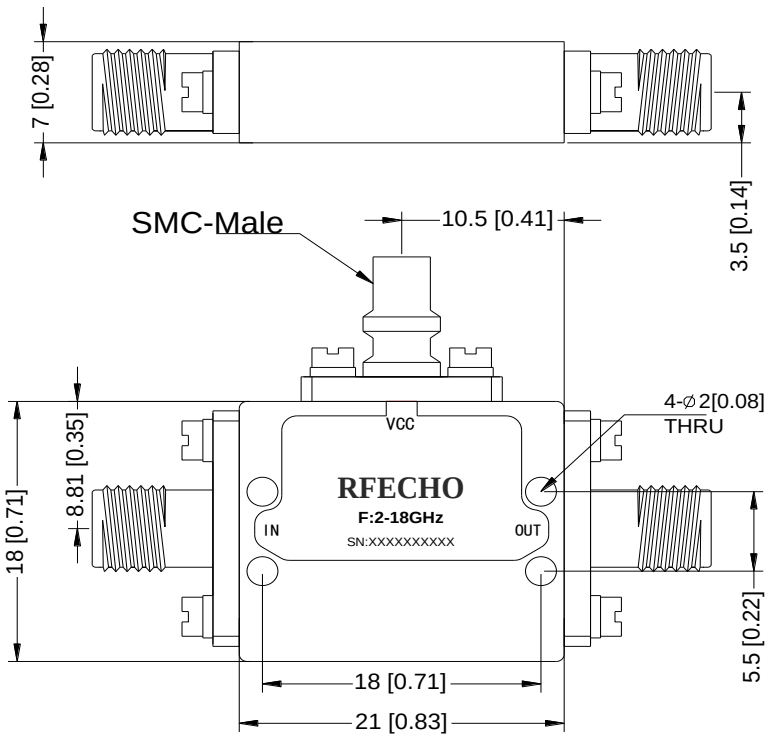
Operational Temperature	-40ºC~+85ºC
Storage Temperature	-50ºC~+105ºC
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35ºc, 95%RH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

Ordering Information

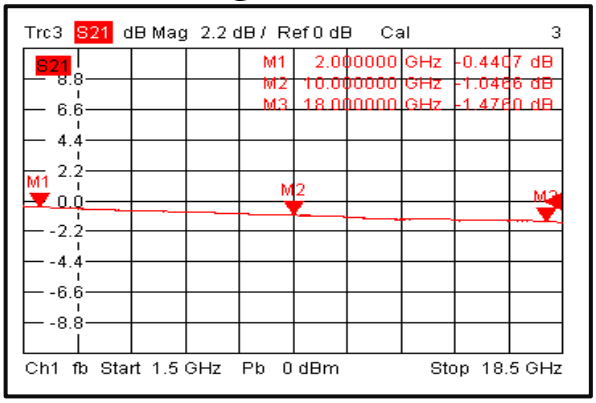
Part No.	Description
DBVA5002001800A	2-18GHz Voltage Control Attenuator

Outline Drawing:

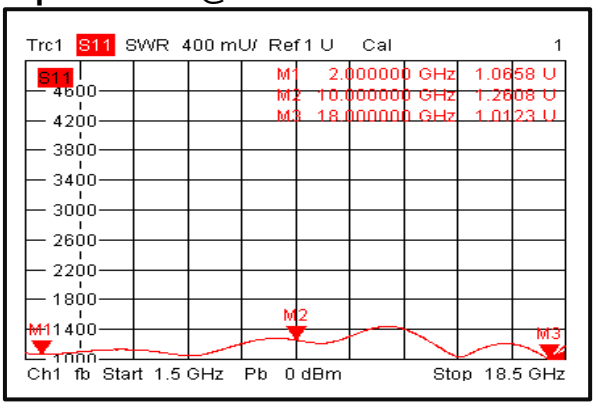
All Dimensions in mm (inches) Tolerances ±0.1 (0.004)



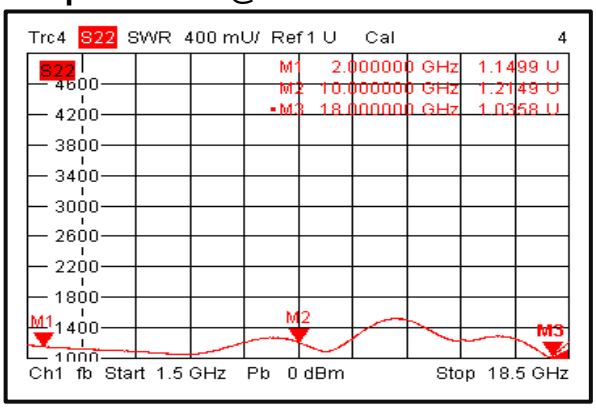
Insertion Loss@+25℃



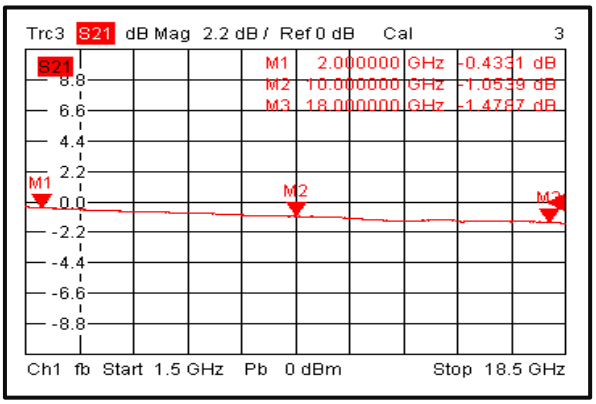
Input VSWR @+25℃



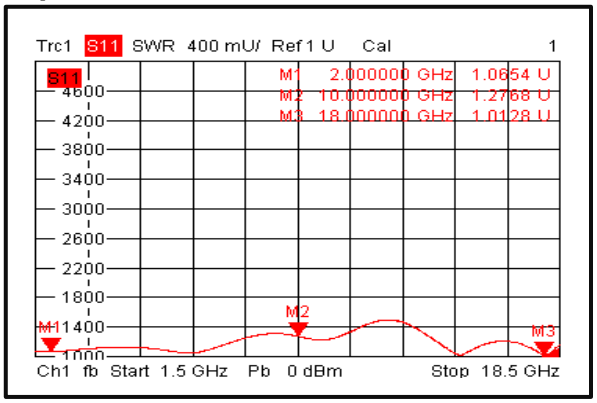
Output VSWR @+25℃



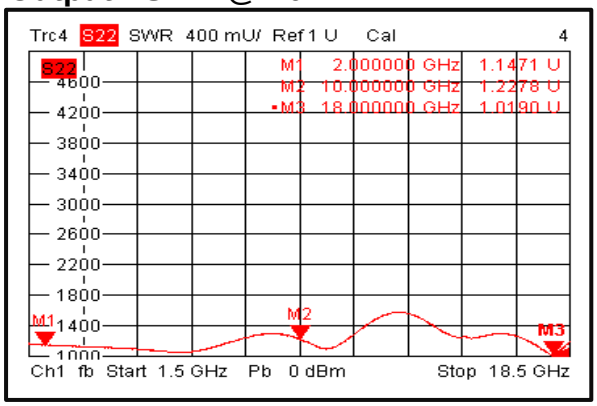
Insertion Loss @-40℃



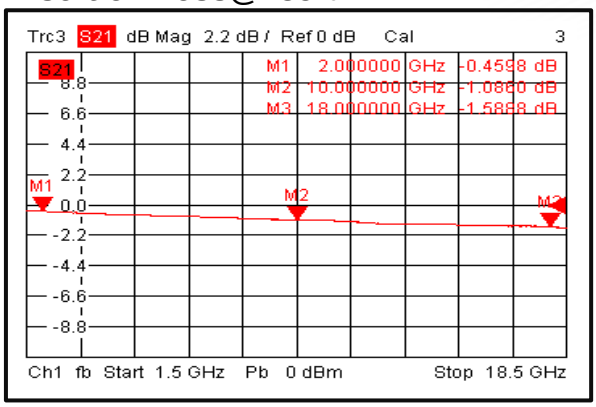
Input VSWR @-40℃



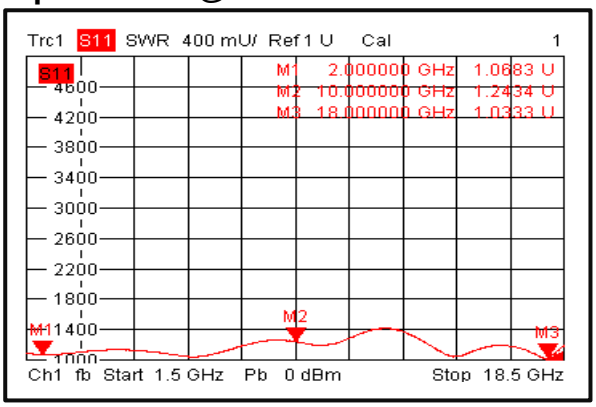
Output VSWR @-40℃



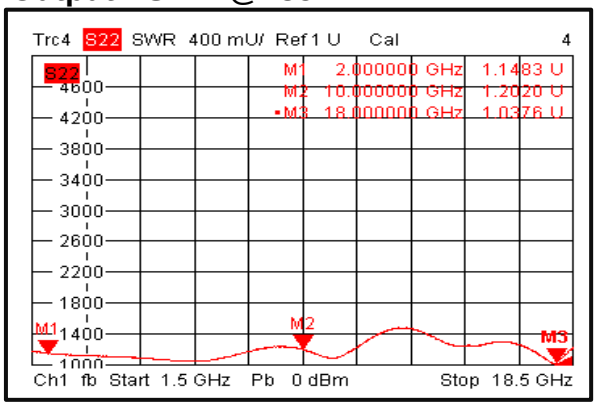
Insertion Loss@+85℃



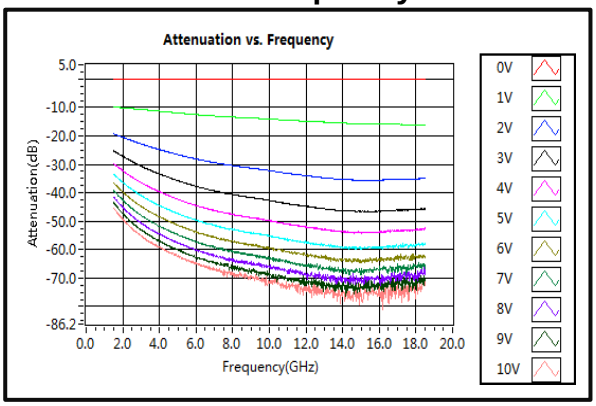
Input VSWR @+85℃



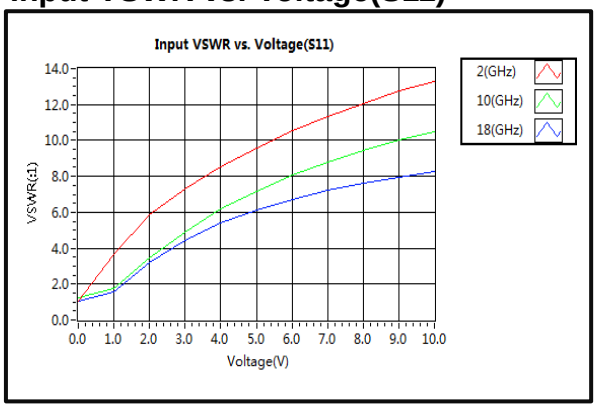
Output VSWR @+85℃



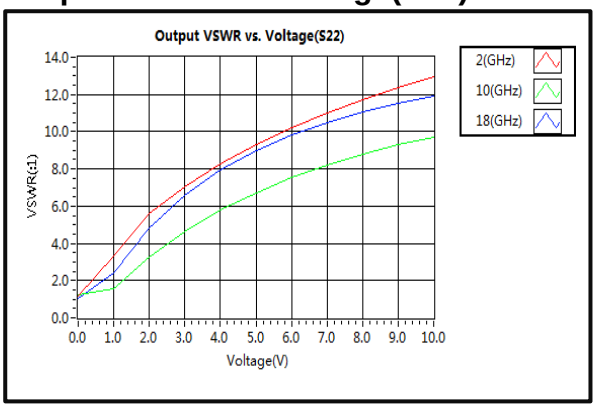
Attenuation vs. Frequency



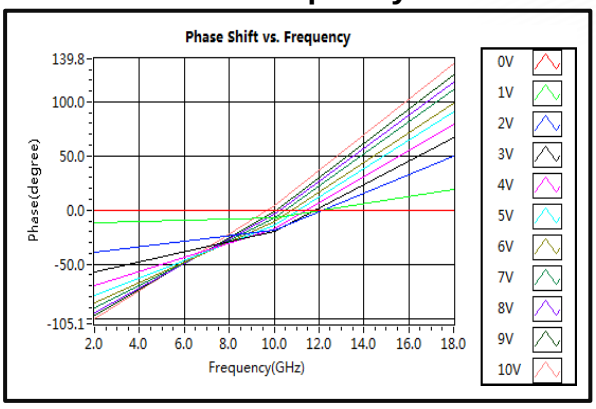
Input VSWR vs. Voltage(S11)



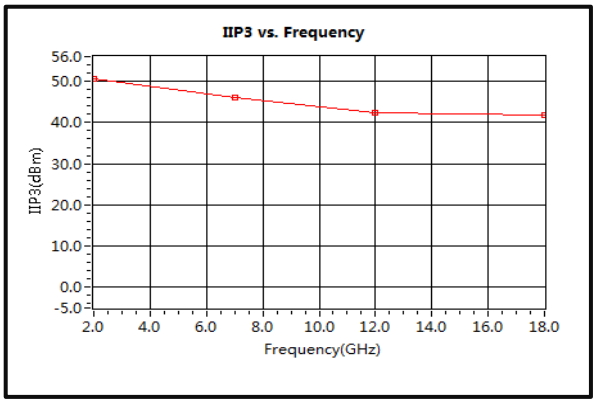
Output VSWR vs. Voltage(S22)



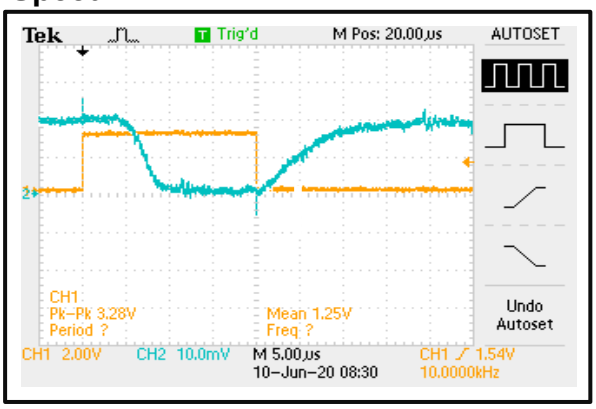
Phase Shift vs. Frequency



IIP3



Speed



Speed