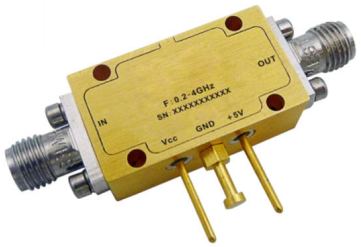
Absorptive Voltage Control Attenuator 0.2-4GHz

Features

- Wide Band Operation 0.2-4GHz
- Functional Bandwidth : 0.1GHz - 6GHz
- Wide Attenuation Range 30dB
- Absorptive Topology
- Singe Control Operation



Parameters	Min	Typ.	Max	Min	Typ.	Max	Min	Typ.	Max	Units
Frequency Range	0.2~ 1			1~2			2~4			GHz
Attenuation Range		30			30			30		dB
Insertion Loss		2.8	3.5		3.3	3.8		4.3	4.8	dB
Insertion Loss Temperature Coefficient		0.01			0.01			0.01		dB/ °C
Input VSWR @Insertion Loss state		1.5	2.0		1.6	2.0		1.8	2.2	: 1
Output VSWR @Insertion Loss state		1.5	2.0		1.6	2.0		1.8	2.2	: 1
0.1dB Compression Point (P0.1dB)		30			30			30		dBm
Input Ip3		50			50			50		dBm
Switching Speed			15			15			15	us
Control Voltage	0	10		0	10		0	10		V
Weight	0.35									Ounces
Impedance	50									Ω
Current	30									mA
Input / Output Connectors	SMA-Female									
Finish	Gold Plated									
Material	Aluminum									
Sealing	Epoxy Sealed (Standard) Hermetically Sealed (Optional)									

Absolute Maximum Ratings

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

Environmental Specifications

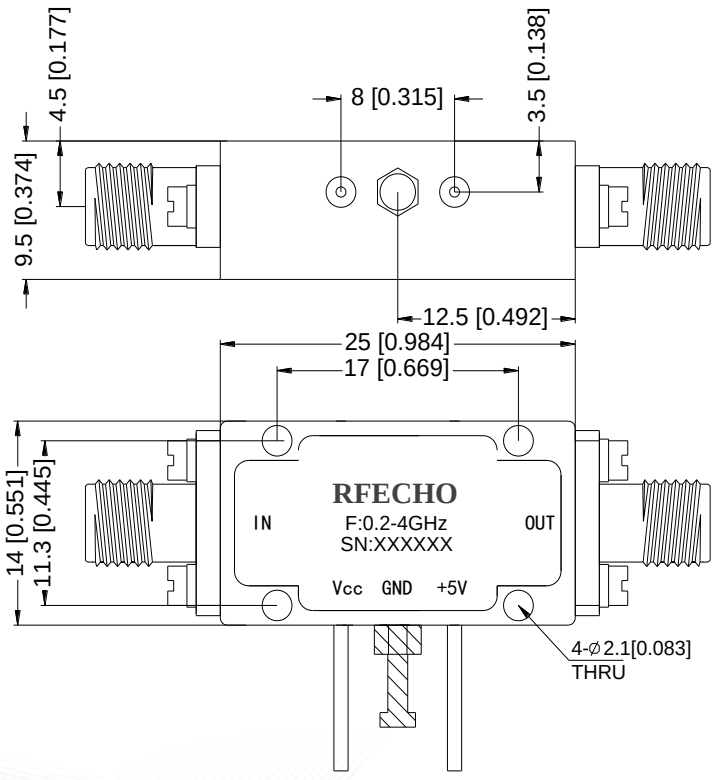
Operational Temperature	-40ºC~+85ºC
Storage Temperature	-50ºC~+105ºC
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35ºc, 95%RH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

Ordering Information

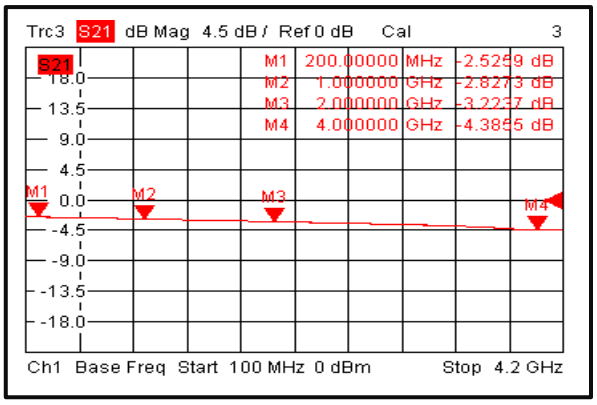
Part No.	Description
DBVA3000200100A	0.2-4GHz Voltage Control Attenuator

Outline Drawing:

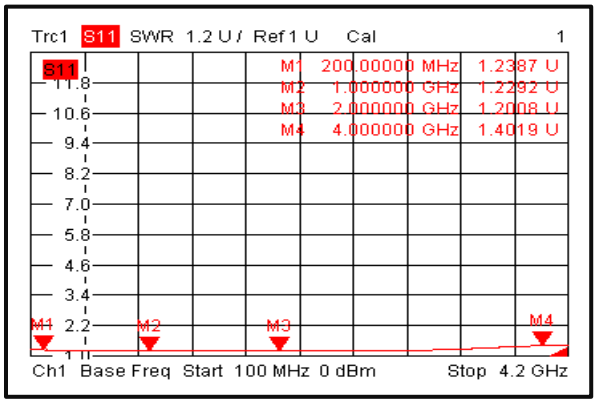
All Dimensions in mm (inches)



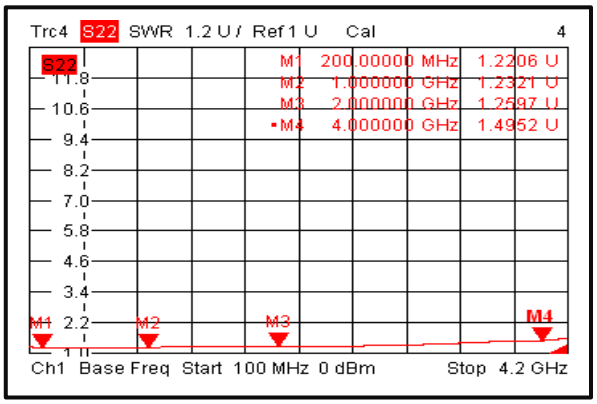
Insertion Loss @+25℃



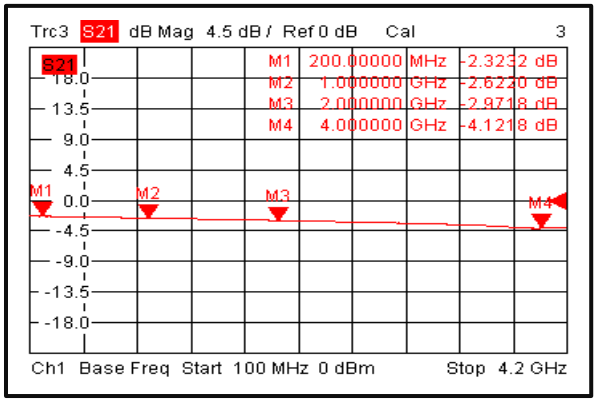
Input VSWR @+25℃



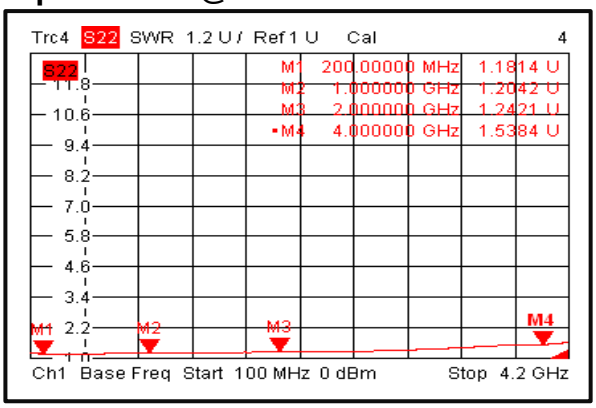
Output VSWR @+25℃



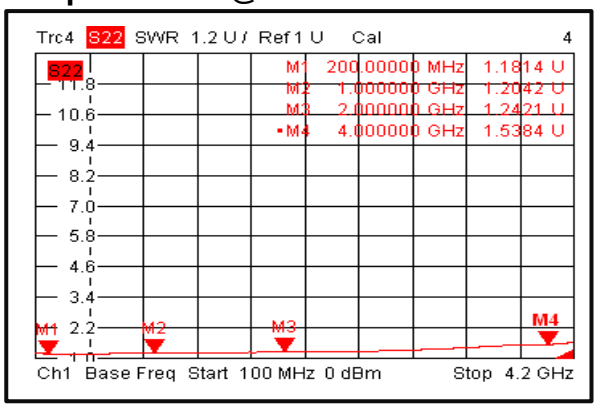
Insertion Loss @-40℃



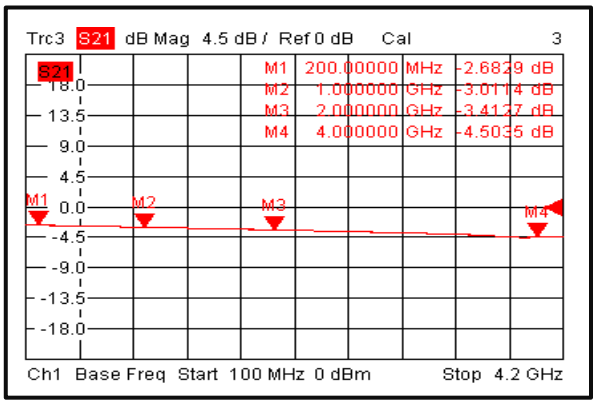
Input VSWR @-40℃



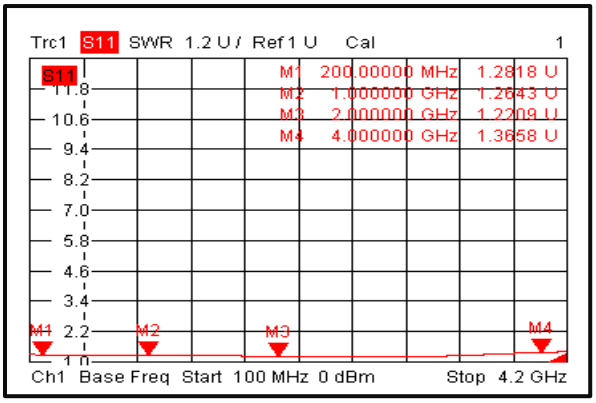
Output VSWR @-40℃



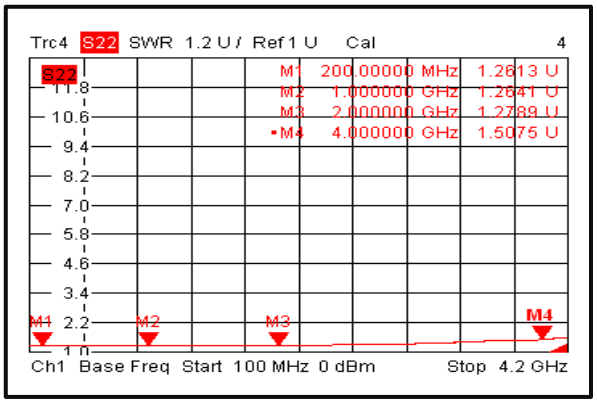
Insertion Loss@+85℃



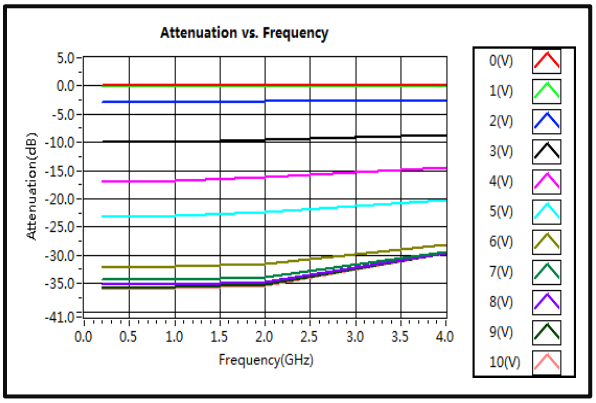
Input VSWR @+85℃



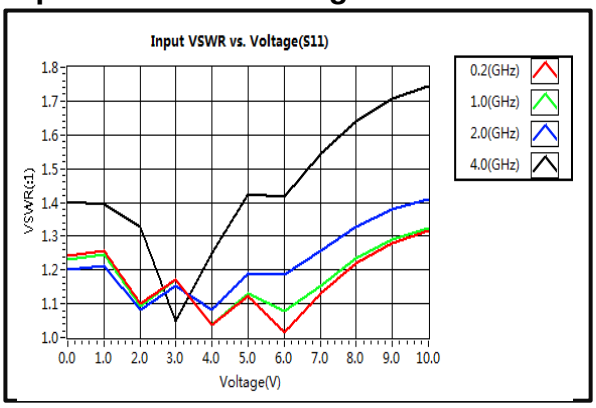
Output VSWR @+85℃



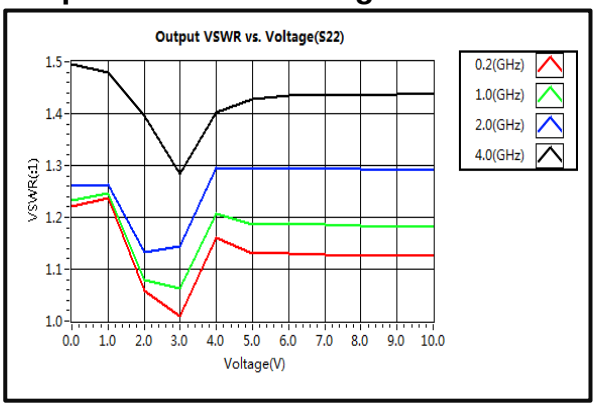
Attenuation vs. Frequency



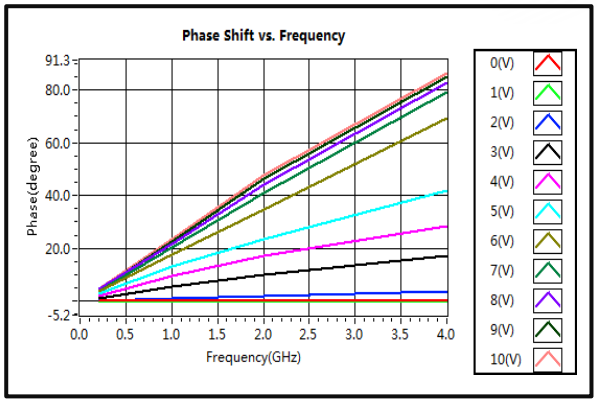
Input VSWR vs. Voltage



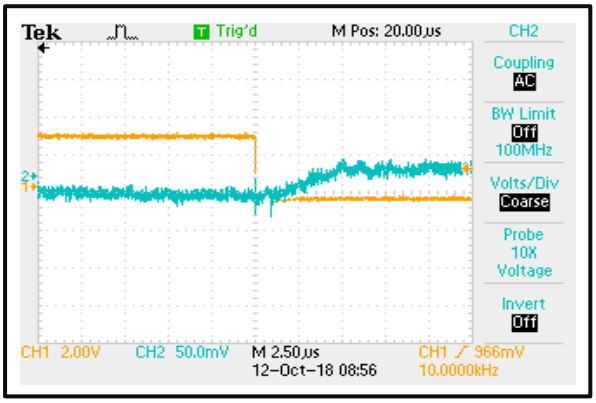
Output VSWR vs. Voltage



Phase Shift vs. Frequency



Speed



Speed