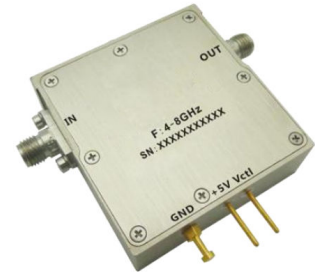




Absorptive Voltage With Inverted Control Signal 4-8GHz

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			1.4	1.6	: 1
Output VSWR			1.4	1.6	: 1
Input 1dB Compression Point				30	dBm
IP3 Input			45		dBm
Switching Speed			1		us
Control Voltage	@ Insertion Loss State	10 Typ.			V
	@ Attenuation State	10~0 Typ.			V
Biasing			5		V
Current			70 Max.		mA
Weight			2.5 Max.		ounces
Impedance			50		Ω
Input / Output Connectors		SMA-Female			
Finish		Nickel Plated			
Material		Aluminum			
Sealing		Hermetically Sealed (Optional)			



Absolute Maximum Ratings

Biassing	+5.5V
Control Voltage	13~0V
RF Input Power	+30 dBm

Environmental Specifications

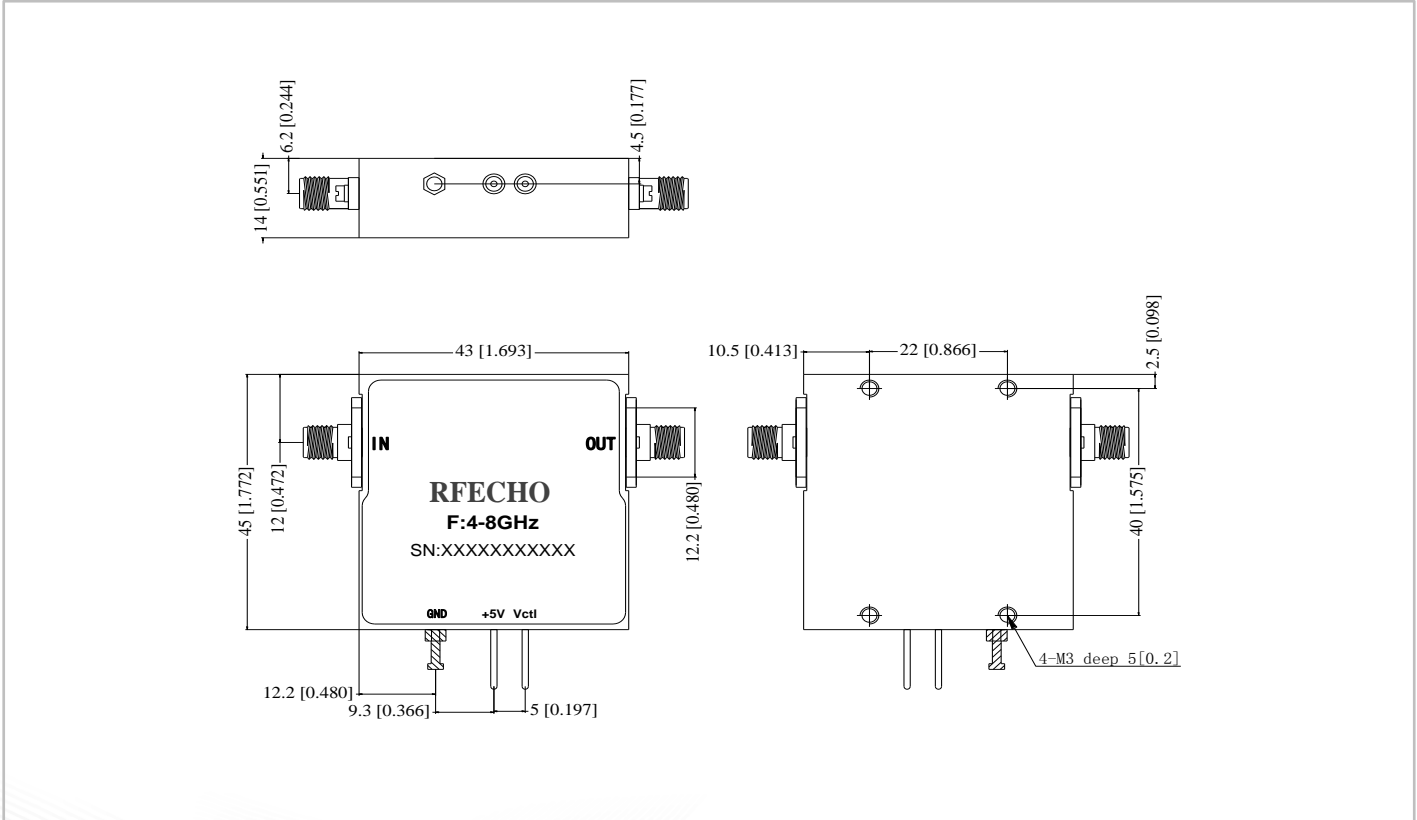
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH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

Ordering Information

Part No.	ECCN	Description
DBVA3004000800D	EAR99	4-8GHz Voltage Control Attenuator

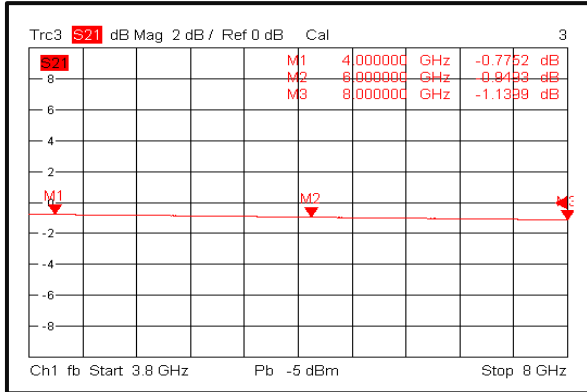
Outline Drawing:

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

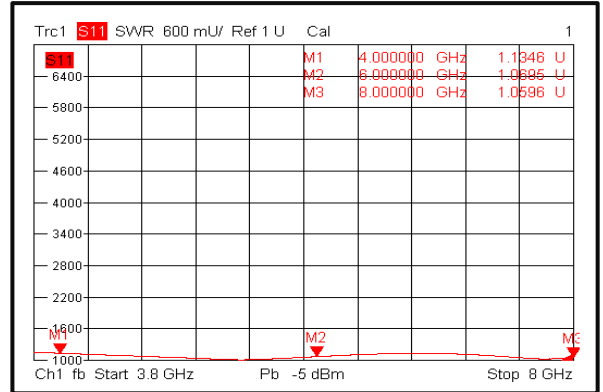




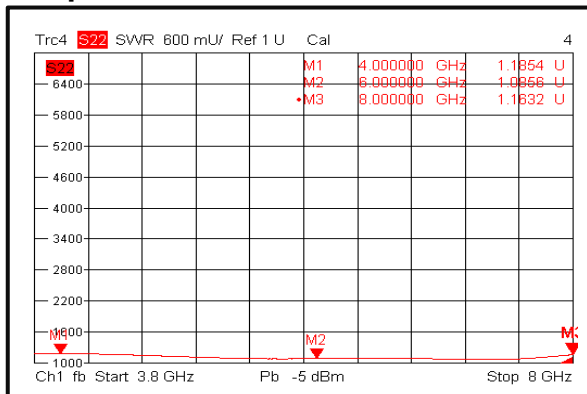
Insertion Loss @+25°C



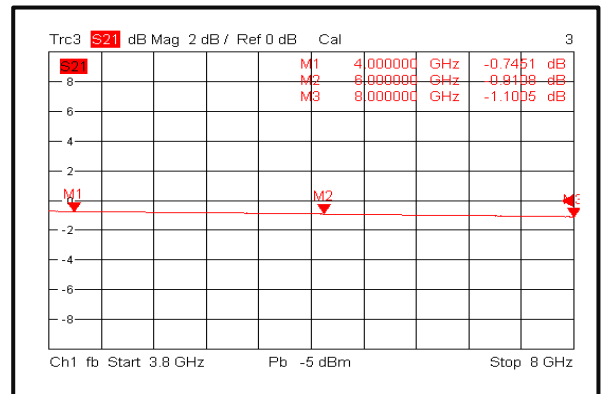
Input VSWR @+25°C



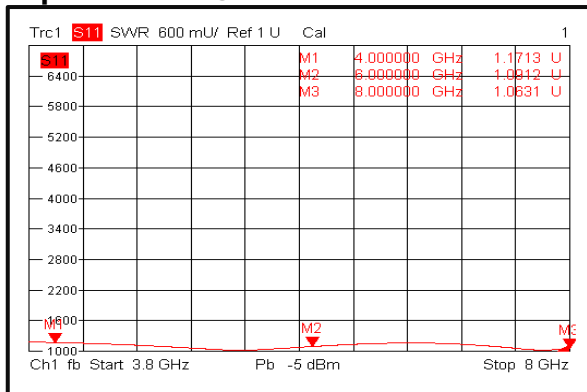
Output VSWR @+25°C



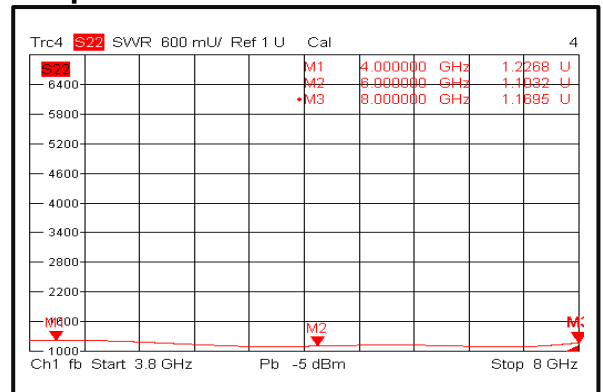
Insertion Loss @-40°C



Input VSWR @-40°C

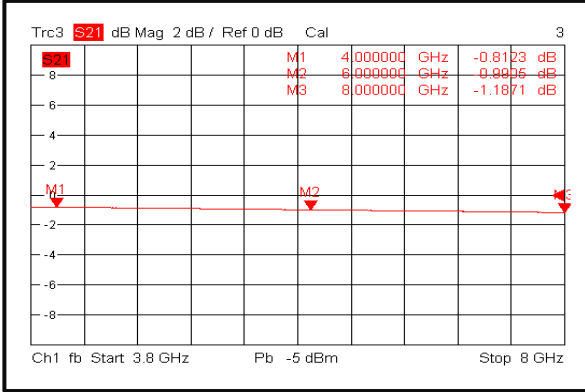


Output VSWR @-40°C

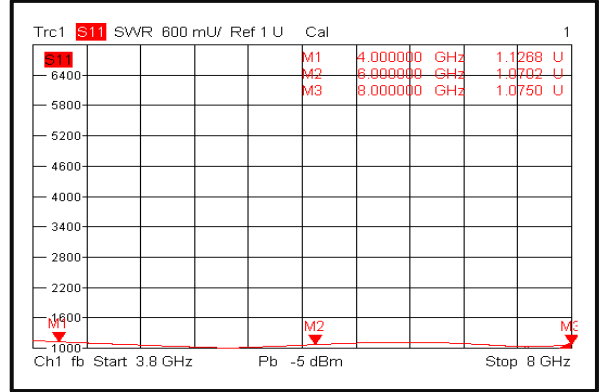




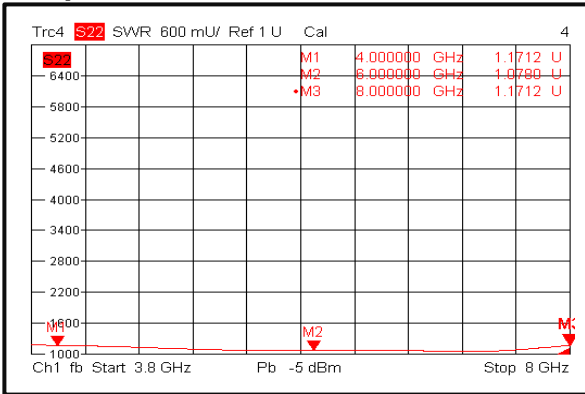
Insertion Loss @+85°C



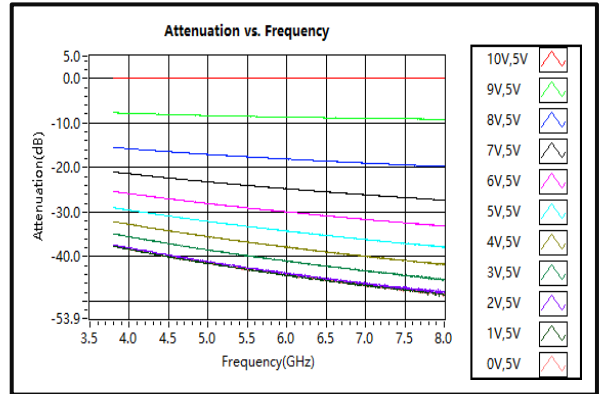
Input VSWR @+85°C



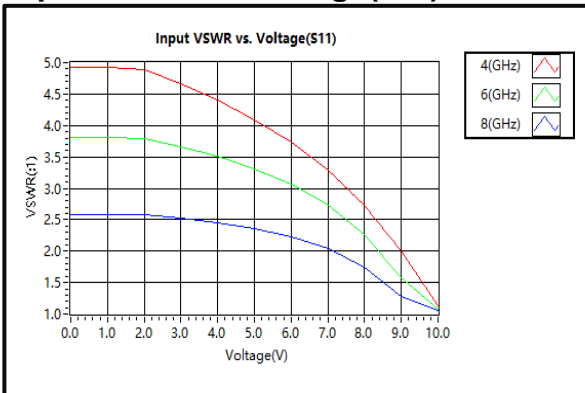
Output VSWR @+85°C



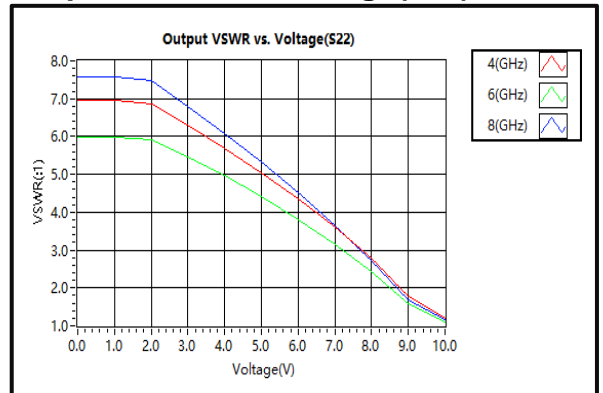
Attenuation vs. Frequency



Input VSWR vs. Voltage(s11)

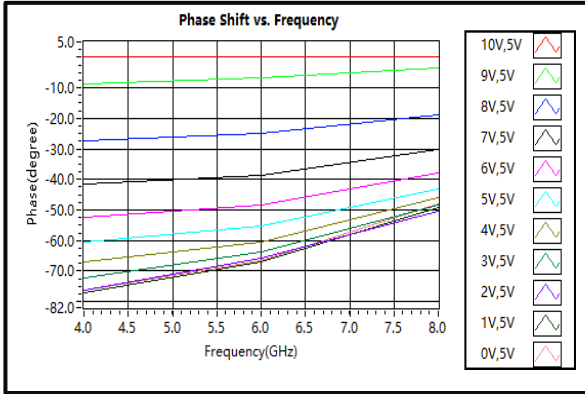


Output VSWR vs. Voltage(s22)





Phase Shift vs. Frequency



IIP3

