

# Voltage Control Phase Shifter 2-4GHz

## Features

- Wide Band Operation 2-4GHz
- 360° Phase Shift
- Low Insertion Loss and Low Phase Error
- Single Control Operation
- Customization available upon request



Parameter	Min	Typ.	Max	Units
Frequency Range	2 ~ 4			GHz
Phase Range	180	360		deg
Phase Error		±10	±15	deg
Insertion Loss		4.0	5.5	dB
Insertion Loss Temperature Coefficient		0.01		dB/ °C
Input VSWR		2.0	2.8	: 1
Output VSWR		2.0	2.8	: 1
0.1dB Compression Point (P0.1dB)		25		dBm
Control Voltage	0	10		V
current		5		mA
Impedance		50		Ω
Weight		0.35		ounces
Input / Output Connectors	SMA-Female			
Finishing	Gold Plating			
Material	Aluminum			
Sealing	Hermetically Sealed ( optional )			



### Absolute Maximum Ratings

Control Voltage	15V
RF Input power	+27dBm

### Environmental Specifications

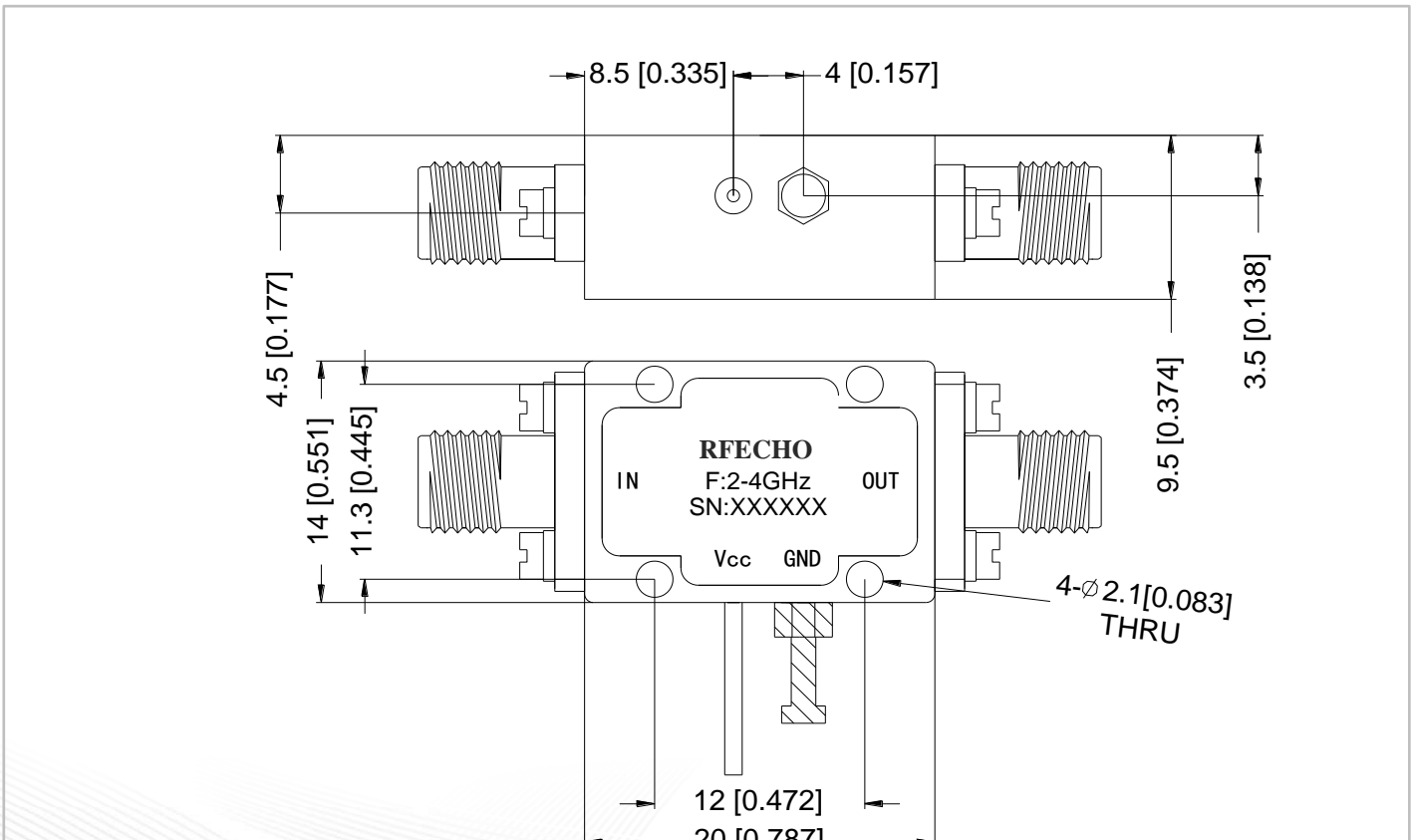
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH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

### Ordering Information

Part No.	Description
DBVCPS02000400B	2-4GHz Voltage Phase Shifter

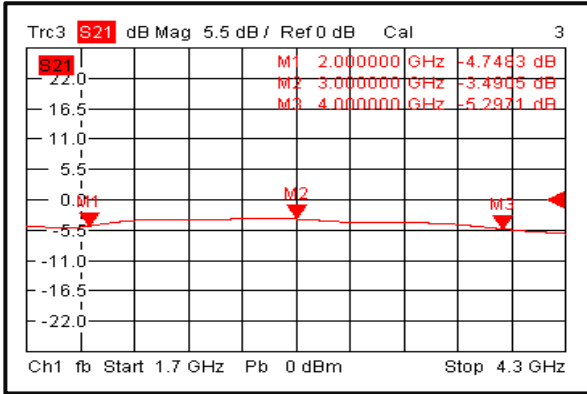
### Outline Drawing:

All Dimensions in mm (inches)

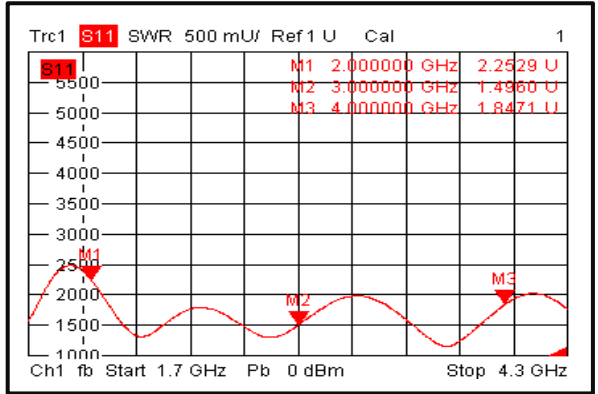




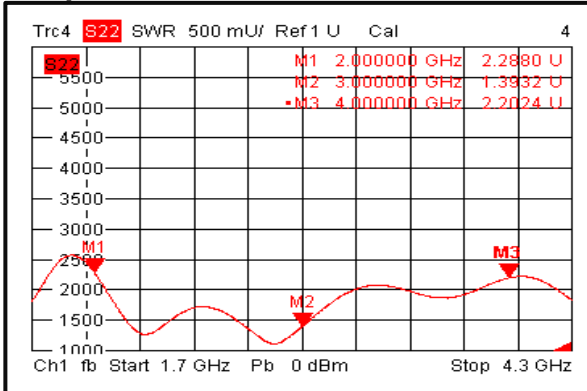
### Insertion Loss @ +25°C



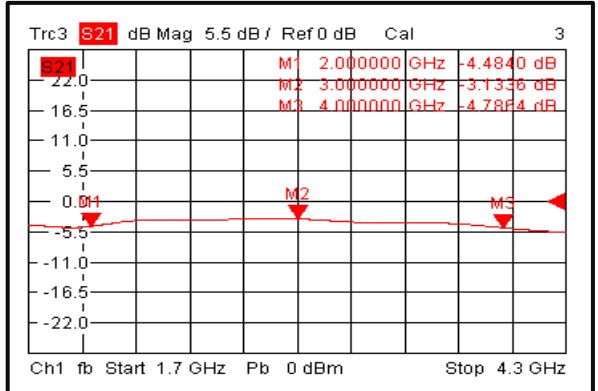
### Input VSWR @ +25°C



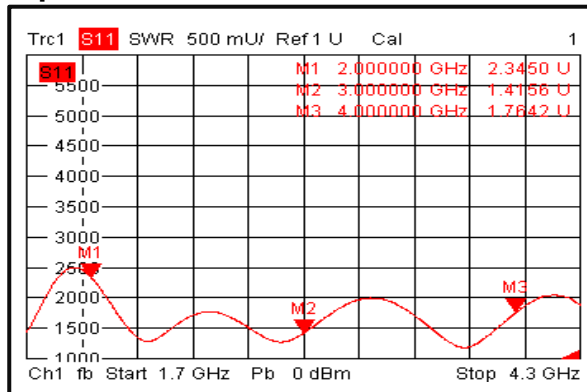
### Output VSWR @ +25°C



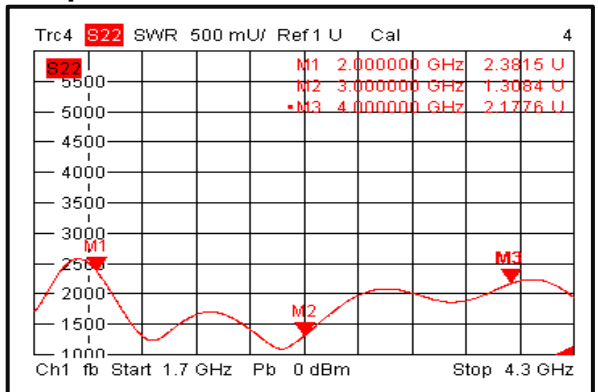
### Insertion Loss @ -40°C



### Input VSWR @ -40°C

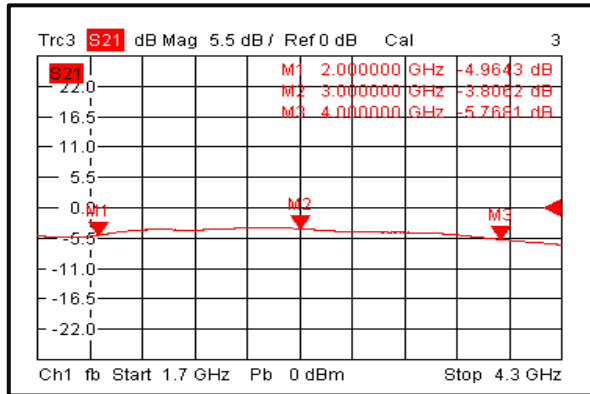


### Output VSWR @ -40°C

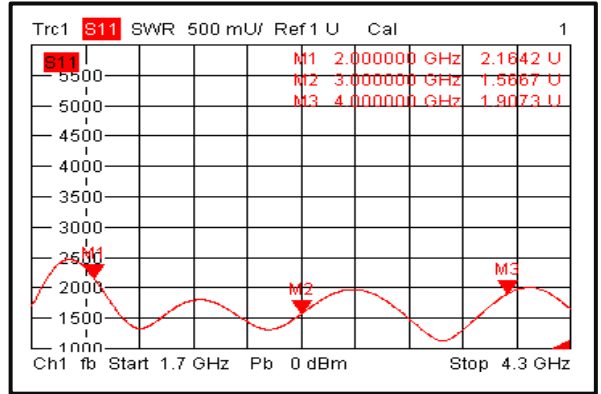




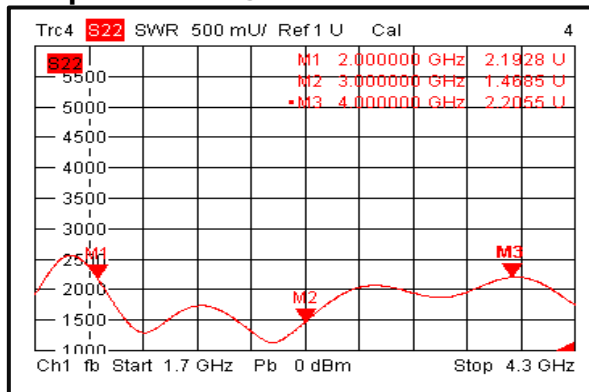
### Insertion Loss @ +85°C



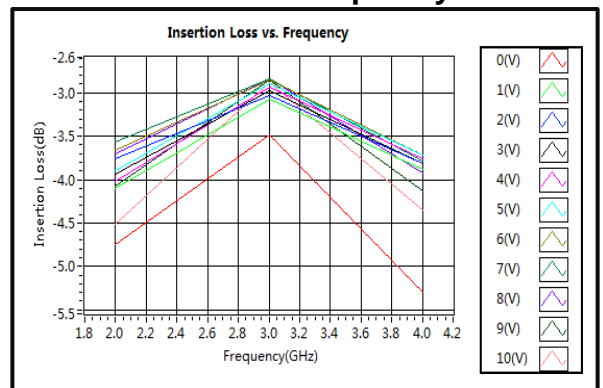
### Input VSWR @ +85°C



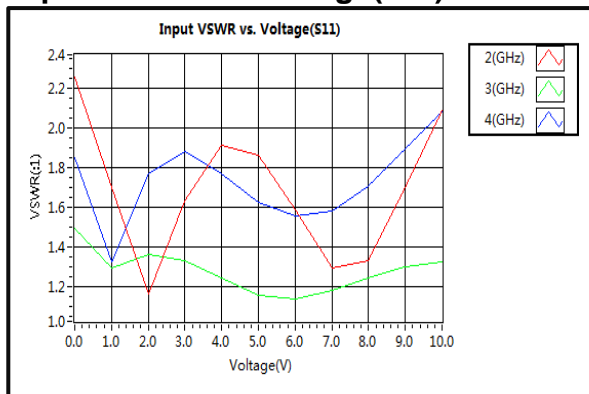
### Output VSWR @ +85°C



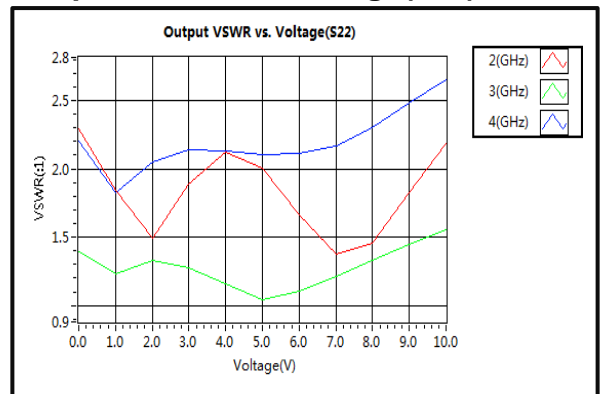
### Insertion Loss vs. Frequency



### Input VSWR vs. Voltage (s11)

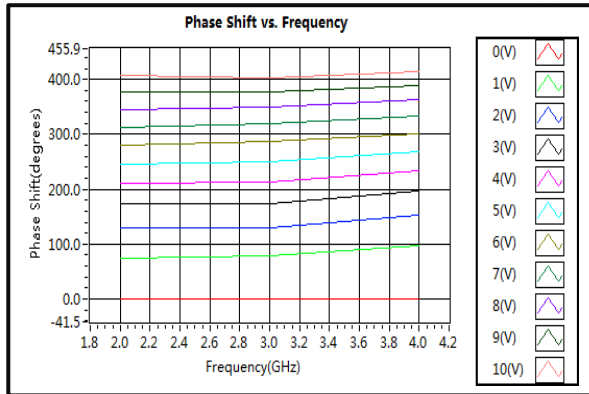


### Output VSWR vs. Voltage (s22)

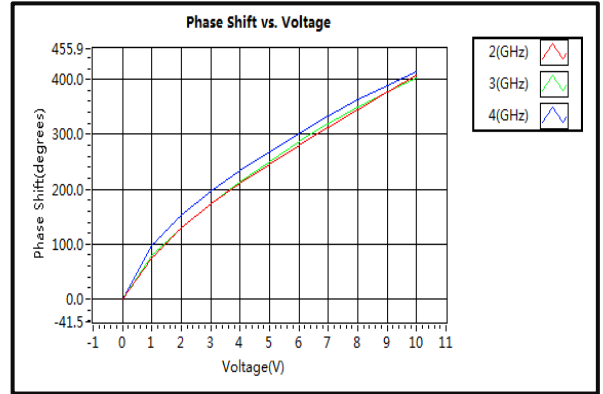




### Phase Shift vs. Frequency



### Phase Shift vs. Voltage



### Normalized Attenuation vs. Frequency

