



# Voltage Control Phase Shifter 100-140MHz

## Features

- Wide Band Operation 100-140MHz
- 360° Phase Shift
- Low Insertion Loss and Low Phase Error
- Single Control Operation
- Customization available upon request



Parameters	Min	Typ.	Max	Units
Frequency Range	100-140			MHz
Phase Range		360		deg
Phase Error		±15		deg
Insertion Loss		3.0	3.5	dB
Insertion Loss Temperature Coefficient		0.01		dB/ °C
Input Return loss		18		dB
Output Return loss		18		dB
Input Power for 1 dB Compression		20		dBm
Control Voltage	0	10		V
current	5			mA
Impedance	50			Ω
Weight	2.12			ounces
Input /Output Connectors	SMA-Female			
Finish	Gold Plated			
Material	Aluminum			
Seal	Hermetically Sealed ( optional )			



### Absolute Maximum Ratings

Control Voltage	0~ 20V
RF Input power	+20dBm

### Environmental Specifications

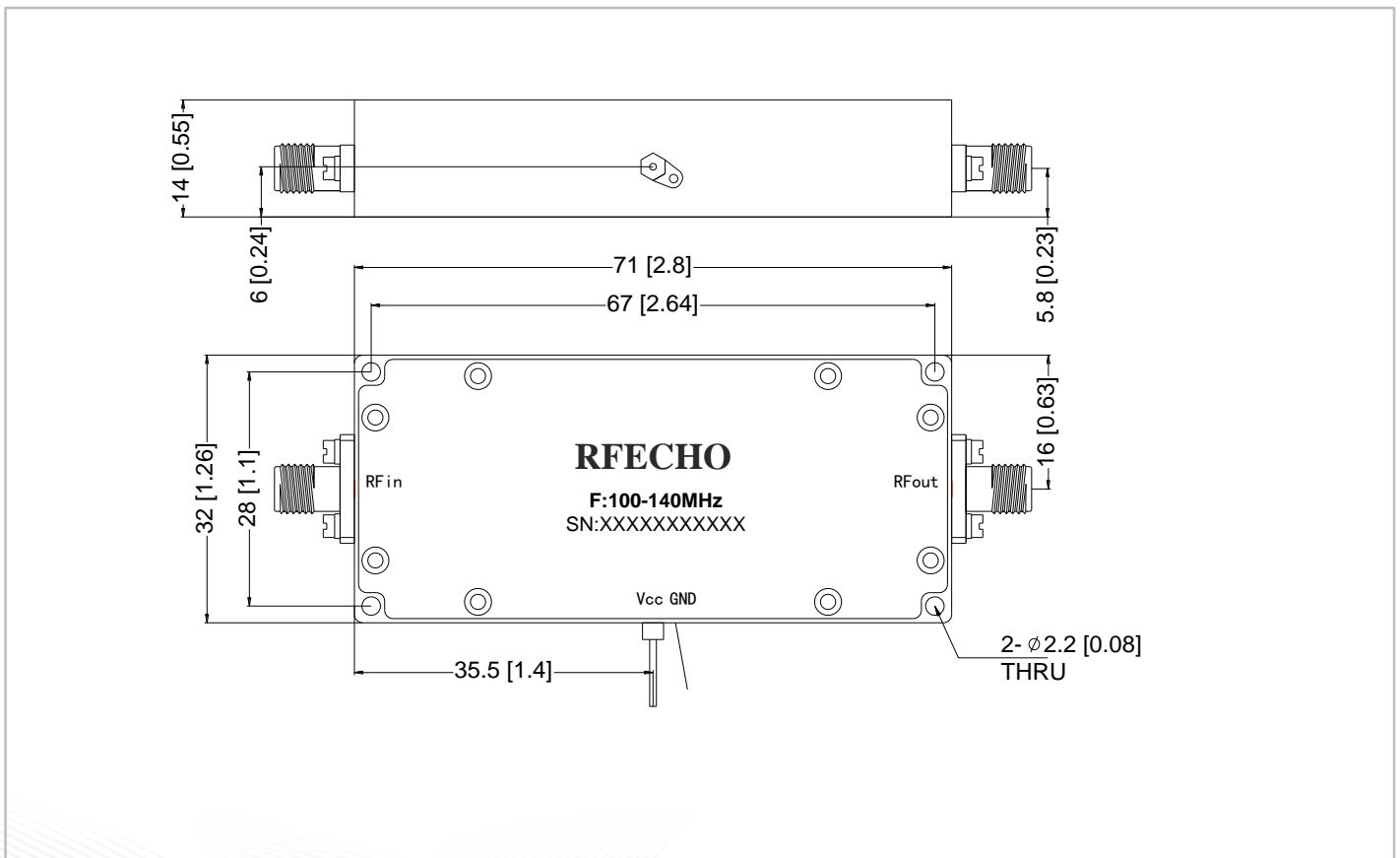
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH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

### Ordering Information

Part No.	Description
DBVCPS00100014A	100-140MHz Voltage Phase Shifter

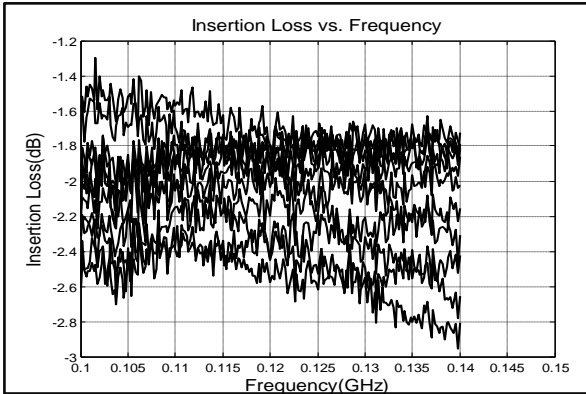
### Outline Drawing:

All Dimensions in mm (inches)

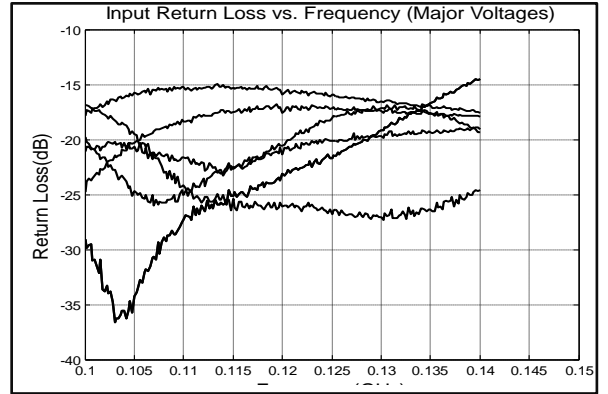




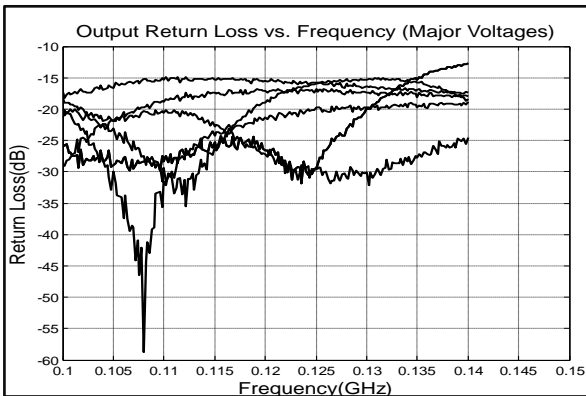
### Insertion Loss vs. Frequency



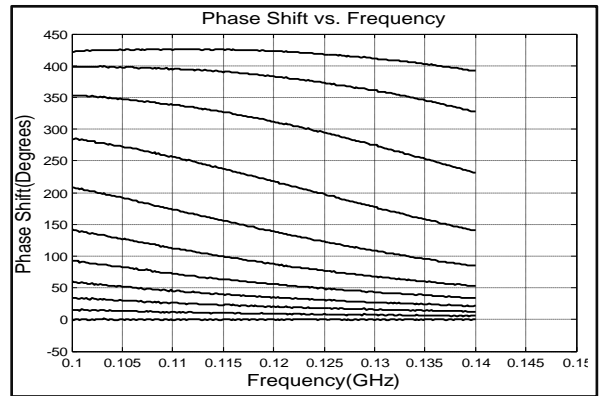
### Input Return Loss vs. Frequency



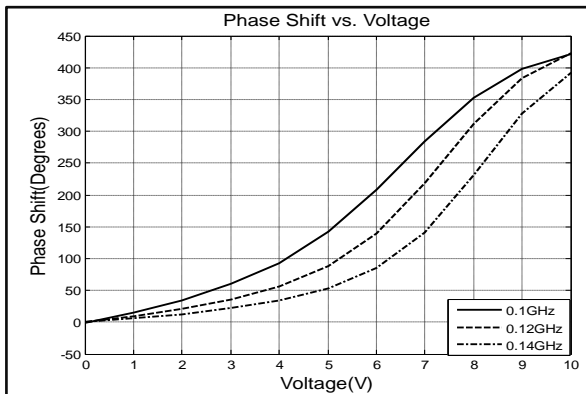
### Output Return Loss vs. Frequency



### Phase Shift vs. Frequency



### Phase Shift vs. Voltage



### Attenuation VS. Frequency

