



### Voltage Control Phase Shifter 1-2GHz



#### Features

- Wide Band Operation 1-2GHz
- 360° Phase Shift
- Low Insertion Loss and Low Phase Error
- Single Control Operation
- Customization available upon request

#### Electrical Specifications, TA = +25 °C

Description	PN:RVPT0102GBC			
	Voltage Control Phase Shifter			
Parameters	Min	Typ.	Max	Units
Frequency Range	1 ~ 2			GHz
Phase Range	360			°
Insertion Loss			5	dB
Insertion Loss Temperature Coefficient		0.16		dB/°C
Phase Flatness			±15	°
Control Voltage	0		12	V
Input VSWR		2.2	2.5	ratio
Output VSWR		2.2	2.5	ratio
Input Power for 1 dB Compression		25		dBm
IM3		30		dBc
Weight	1.2			ounces
Impedance	50			Ω
current	5			mA
Input /Output Connector	SMA-Female ( Standard)			
Finishing	Gold Plating			
Material	Aluminum			
Seal	Hermetically Sealed ( optional )			



### Absolute Maximum Ratings

Control Voltage	0~ 13V
RF Input power	+27dBm
Operating Temperature(°C)	-45 ~ +85
Storage Temperature(°C)	-50 ~ +125

### Ordering Information

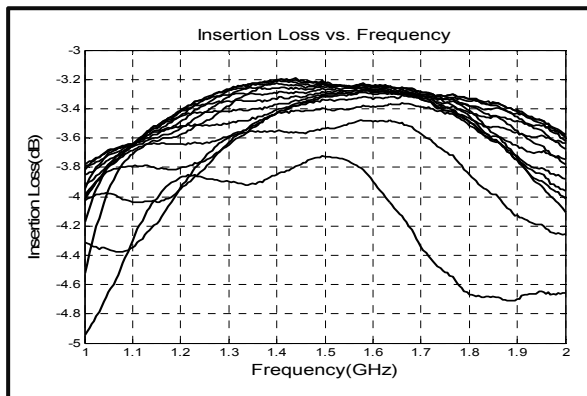
Part No	ECCN	Description
RVPT0102GBC	EAR99	1-2GHz Voltage Control Phase Shifter

### Environment specifications

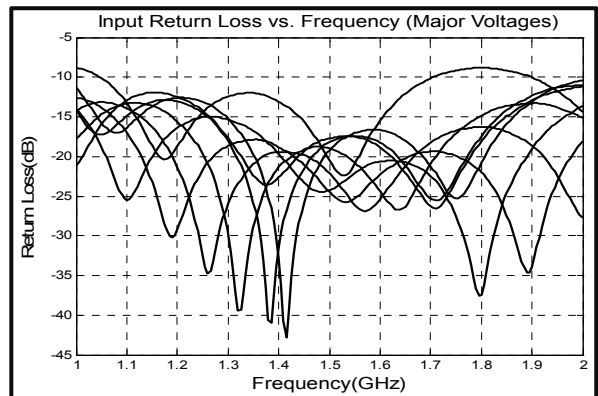
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) ( Optional )
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40°C
Shock	20G for 11msc half sin wave, 3 axis both directions

### Typical performance plots

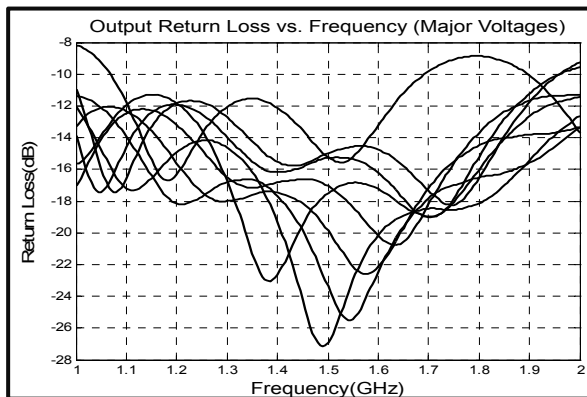
#### Insertion Loss vs. Frequency



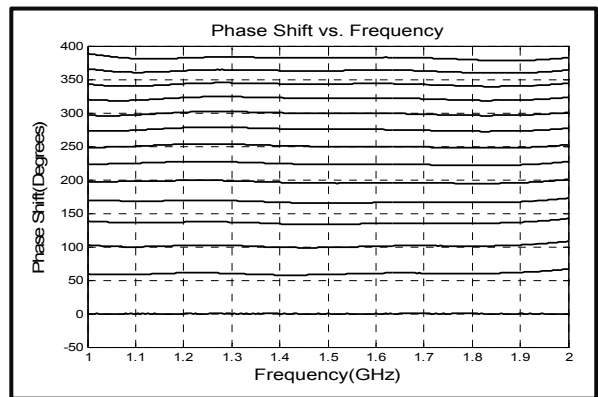
#### Input Return Loss vs. Frequency



#### Output Return Loss vs. Frequency

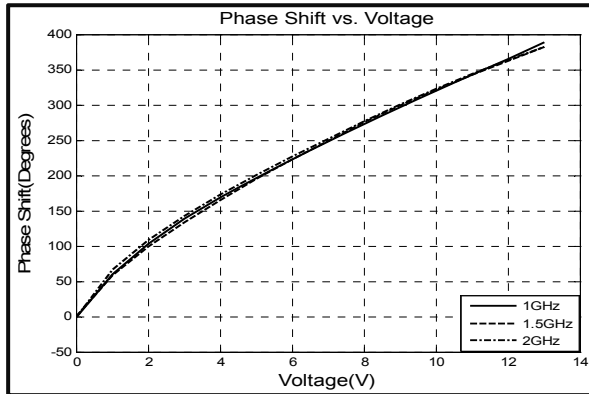


#### Phase Shift vs. Frequency



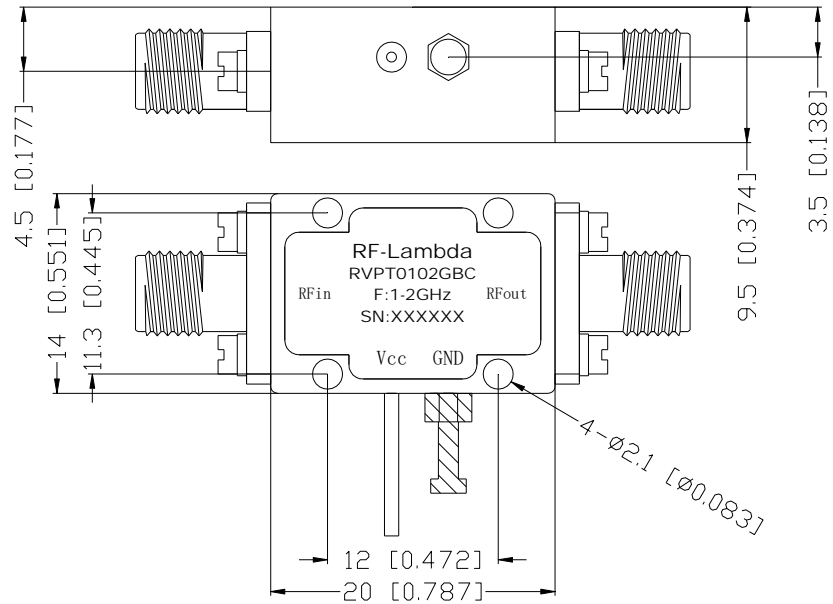


### Phase Shift vs. Voltage



### Outline Drawing:

All Dimensions in mm (inches)



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