



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RVPT0102GAC

Voltage Control Phase Shifter 1 - 2GHz



Features

- Wide Band Operation 1-2GHz
- 180° Phase Shift
- Low Insertion Loss and Low Phase Error
- Single Control Operation
- Customization available upon request

Electrical Specifications, TA = +25°C

Description	PN:RVPT0102GAC			
	Voltage Control Phase Shifter			
Parameters	Min	Typ.	Max	Units
Frequency Range	1~2			GHz
Phase Range	180			°
Insertion Loss		3.8	5.2	dB
Insertion Loss Temperature Coefficient		0.01	0.01	dB/°C
Phase Flatness			±10	°
Control Voltage	0	13		V
Input VSWR		2.0	2.5	:1
Output VSWR		2.0	2.5	:1
0.1dB Compression Point (Po.1dB)		25		dBm
IIP3		30		dBm
Weight	0.35			ounces
Impedance	50			Ω
current	5			mA
Input / Output Connectors	SMA-Female			
Finish	Gold Plated			
Material	Aluminum			
Sealing	Hermetically Sealed (Optional)			

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Absolute Maximum Ratings

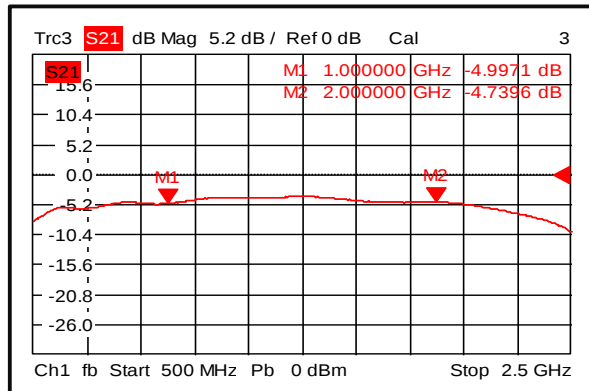
Control Voltage	0V~ 15V
RF Input Power	+27dBm

Ordering Information

Part No.	ECCN	Description
RVPT0102GAC	EAR99	1-2GHz Voltage Control Phase Shifter

Typical Performance Plots

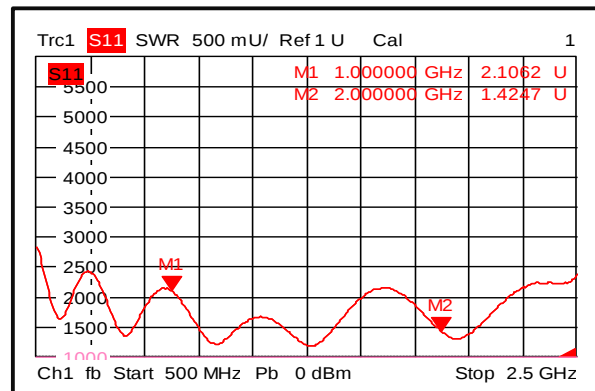
Insertion Loss



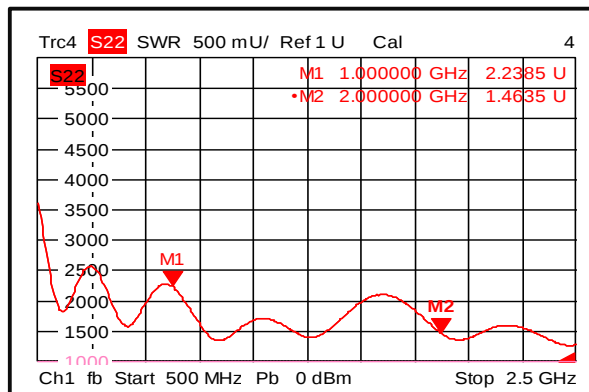
Environmental Specifications

Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
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

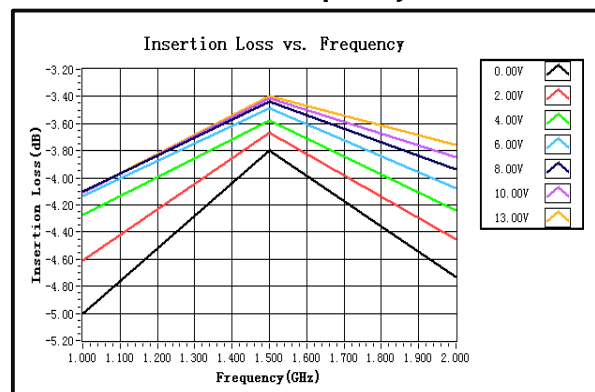
Input VSWR



Output VSWR



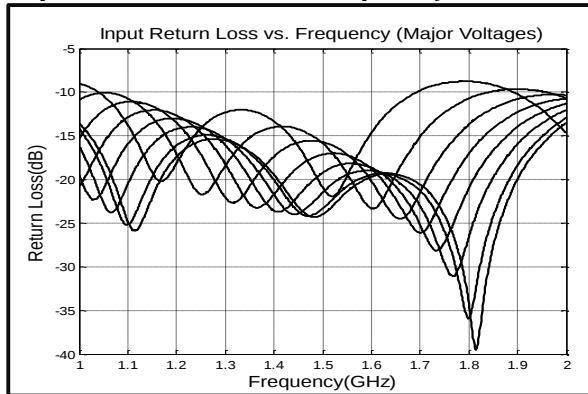
Insertion Loss vs. Frequency



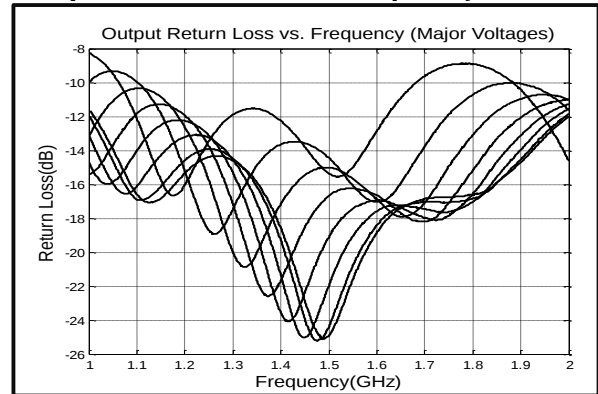
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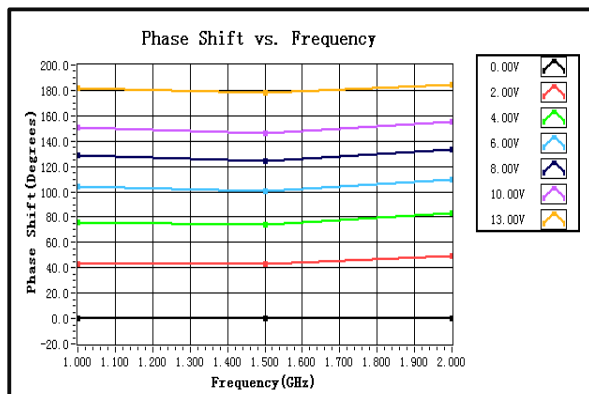
Input Return Loss vs. Frequency



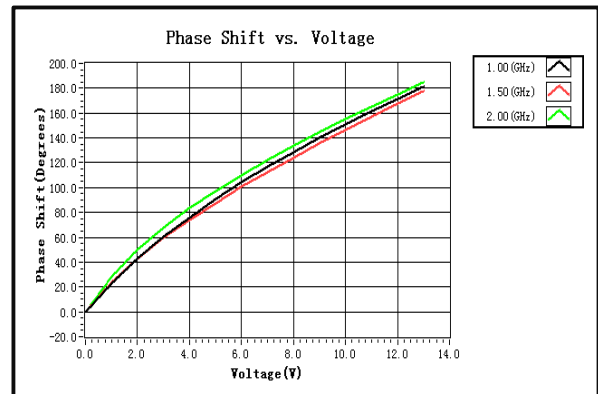
Output Return Loss vs. Frequency



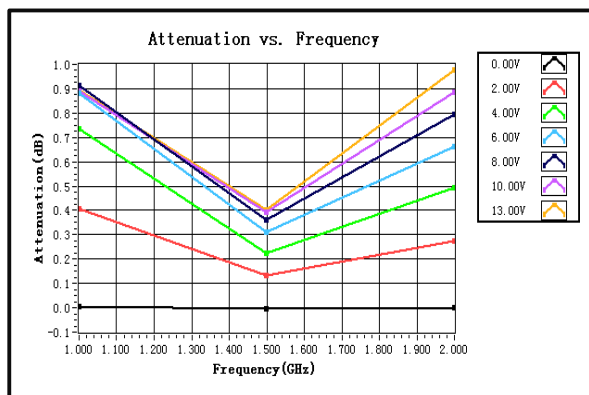
Phase Shift vs. Frequency



Phase Shift vs. Voltage



Attenuation vs. Frequency





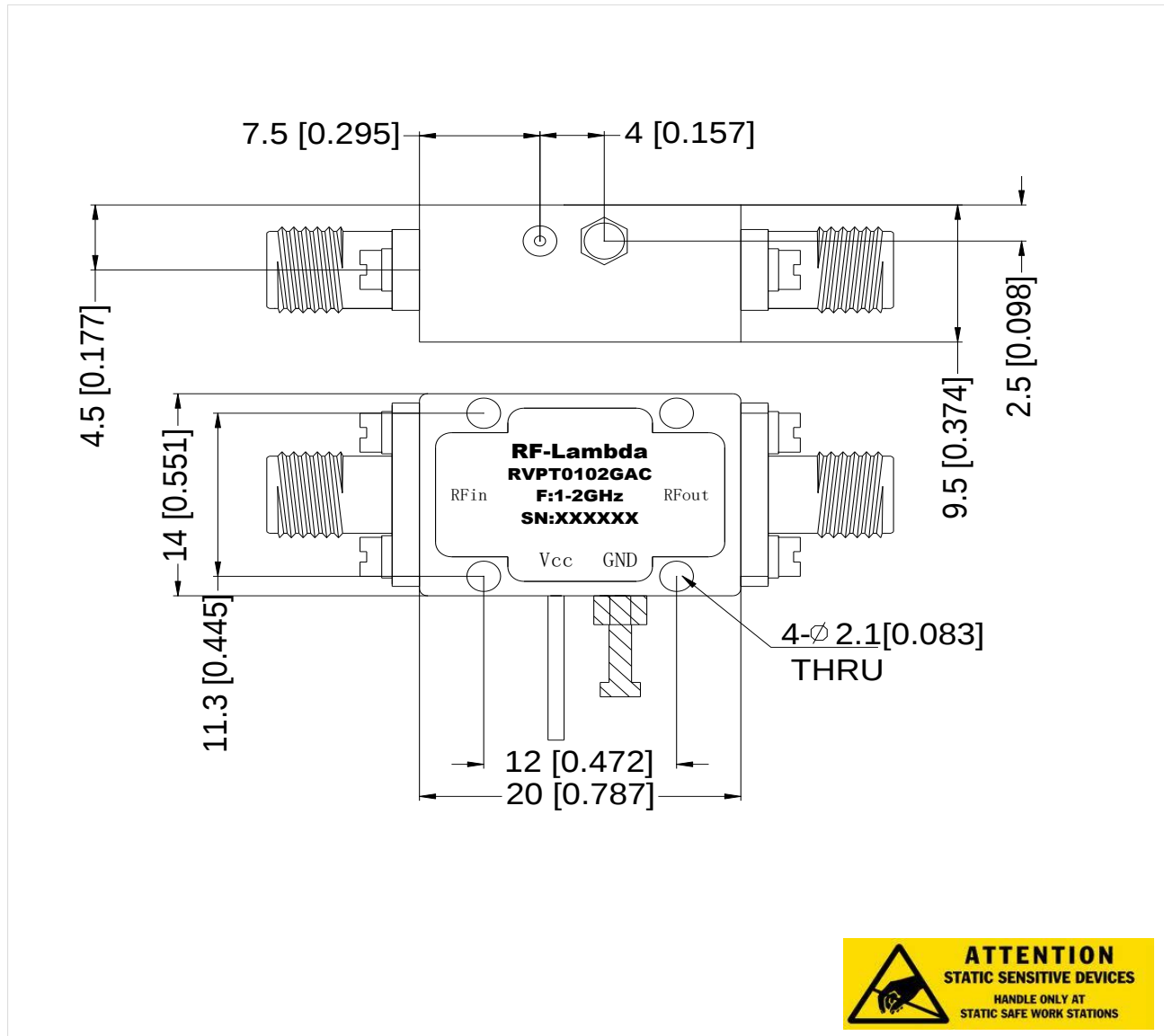
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Outline Drawing:

All Dimensions in mm [inches]



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