



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RVPT1000MBSB

Voltage Controlled Phase Shifter 900 - 1050MHz



Features

- Wide Band Operation (900-1050MHz)
- 180° Phase Shift
- Low Insertion Loss and Low Phase Error
- Single Voltage Operation
- Customization available upon request

Electrical Specifications, $T_A = +25^\circ\text{C}$

Description	PN: RVPT1000MBSB			
	Voltage Controlled Phase Shifter			
Parameters	Min	Typ.	Max	Units
Frequency Range	900-1050			MHz
Phase Range		180		°
Insertion Loss		2.5	3.0	dB
Insertion Loss Temperature Coefficient		0.01		dB/°C
Phase Flatness		±10		°
Control Voltage	0	15		V
Input VSWR			1.5	: 1
Output VSWR			1.5	: 1
0.1dB Compression Point (Po.1dB)		35		dBm
Ip3 Input		35		dBm
Weight	1.2			ounces
Impedance	50			Ω
Bias Current	5			mA
Finishing	Gold Plating			
Material	Aluminum			
Package	Surface Mount			

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Absolute Maximum Ratings

Control Voltage	0~ 20V
RF Input Power	+37dBm

Ordering Information

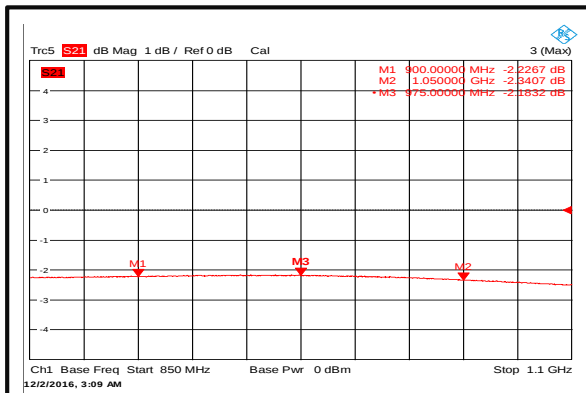
Part No.	ECCN	Description
RVPT1000MBSB	EAR99	900-1050MHz Voltage Control Phase Shifter

Environmental Specifications

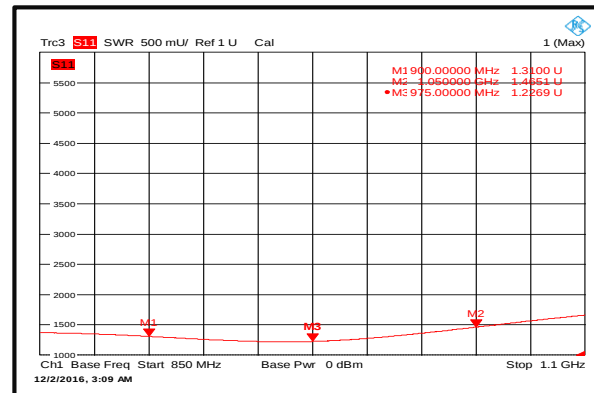
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment) 60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c,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

Typical Performance Plots

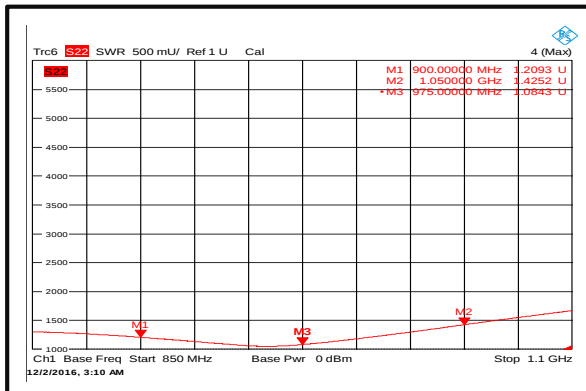
Insertion Loss



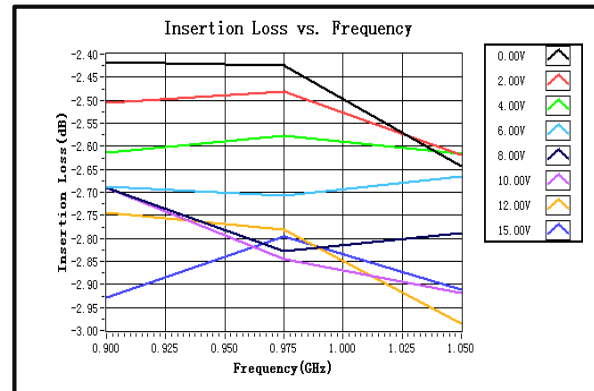
Input VSWR



Output VSWR

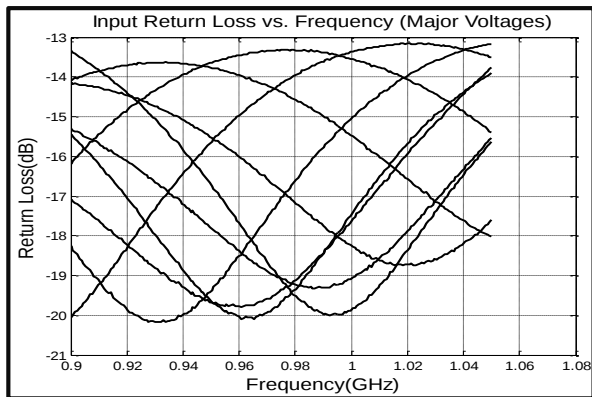


Insertion Loss vs. Frequency

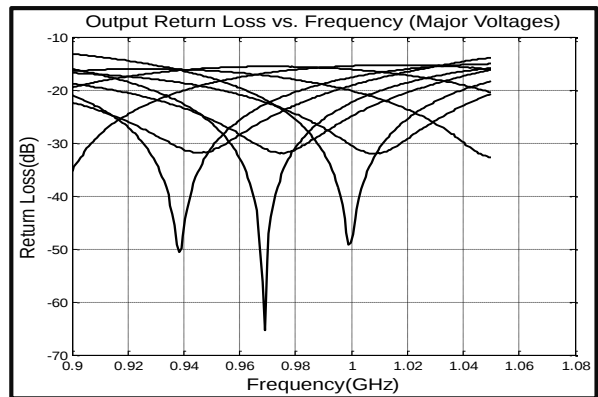




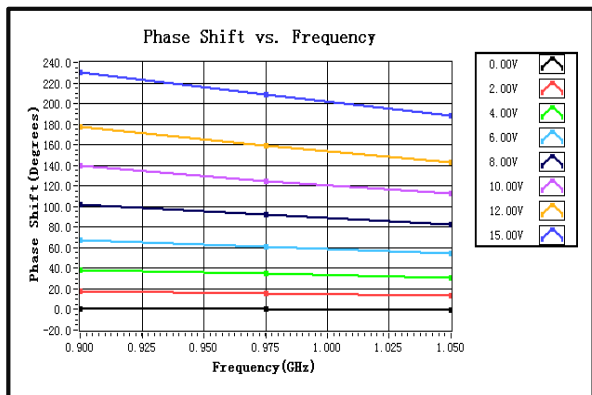
Input Return Loss vs. Frequency



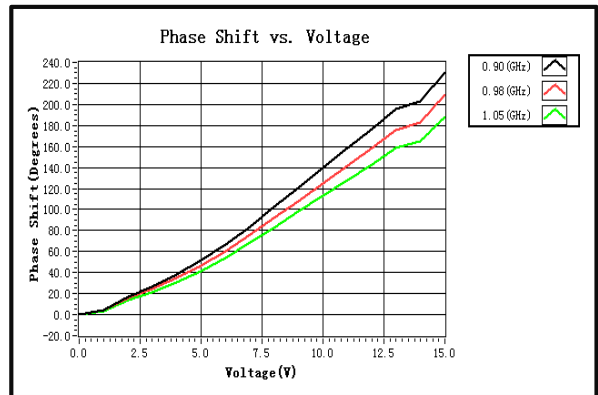
Output Return Loss vs. Frequency



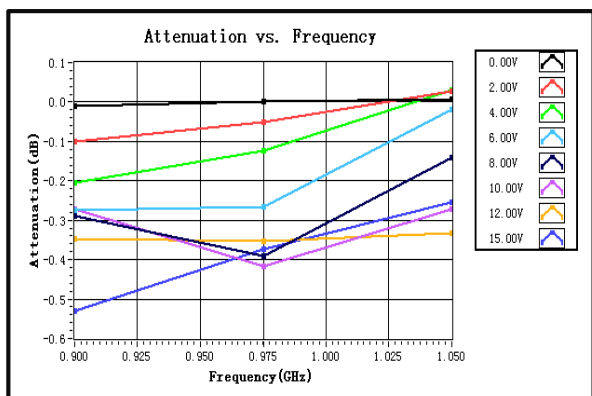
Phase Shift vs. Frequency



Phase Shift vs. Voltage



Attenuation vs. Frequency





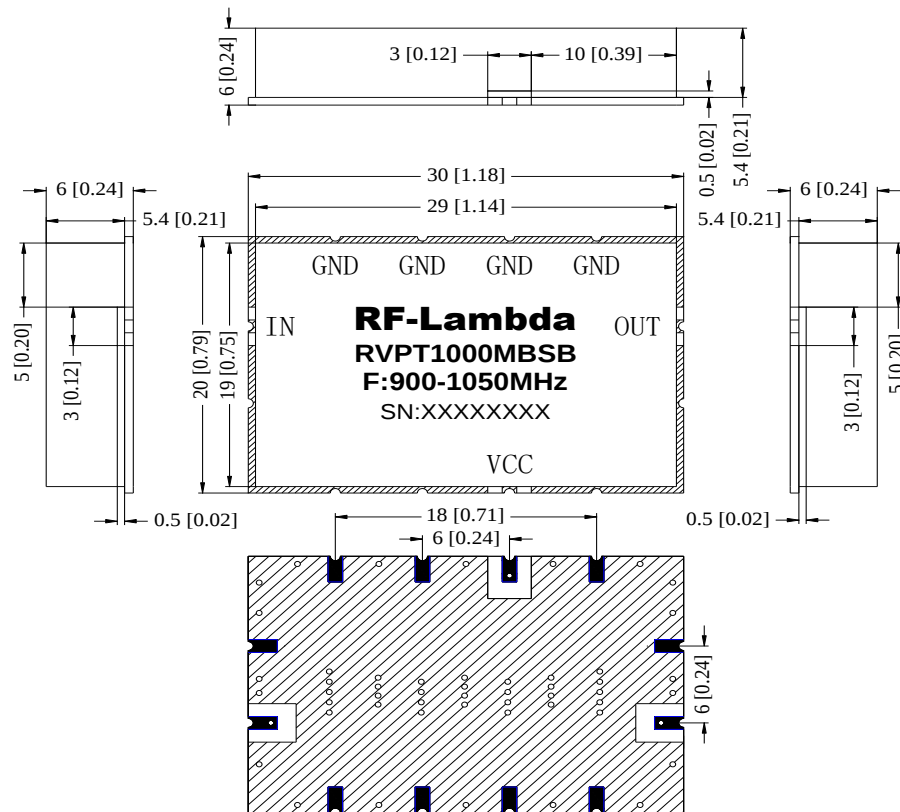
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Outline Drawing:

All Dimensions in mm [inches]



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