



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RVPT0205MBC

Voltage Control Phase Shifter 250- 500MHz



Features

- Wide Band Operation 250-500MHz
- 360° Phase Shift
- Low Insertion Loss and Low Phase Error
- Single Control Operation
- Customization available upon request

Electrical Specifications, TA = +25°C

Description	PN:RVPT0205MBC			
	Voltage Control Phase Shifter			
Parameters	Min	Typ.	Max	Units
Frequency Range	250		500	MHz
Phase Range		360		°
Insertion Loss		4.0	5.0	dB
Insertion Loss Temperature Coefficient		0.01		dB/°C
Phase Flatness		±30		°
Control Voltage	0	14		V
Input VSWR		1.6	2.0	:1
Output VSWR		1.6	2.0	:1
0.1dB Compression Point (Po.1dB)		30		dBm
Input IP3		35		dBm
Weight	2.3			ounces
Impedance	50			Ω
Current Consumption	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	0~ 20V
RF Input power	+30dBm

Ordering Information

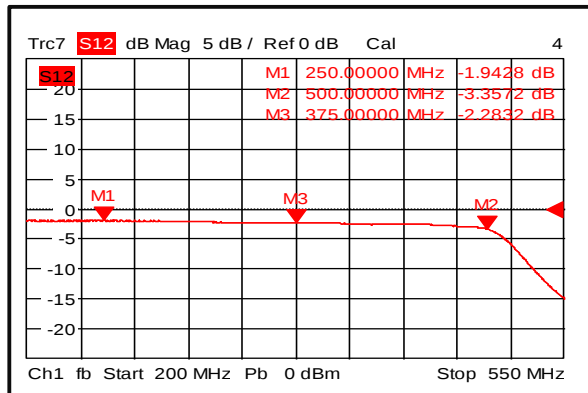
Part No.	ECCN	Description
RVPT0205MBC	EAR99	250-500MHz Voltage Control Phase Shifter

Environmental Specifications

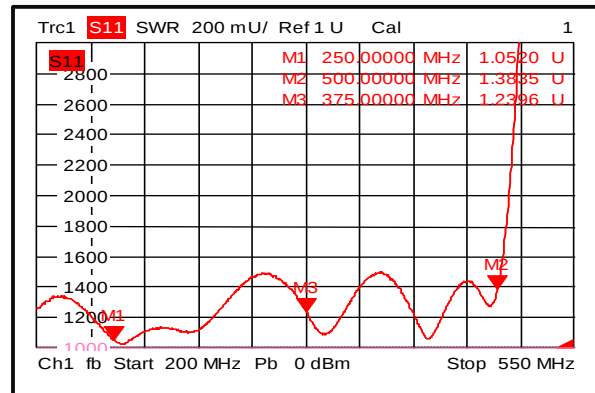
Operational Temperature (°C)	-45 ~ +80
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

Typical Performance Plots

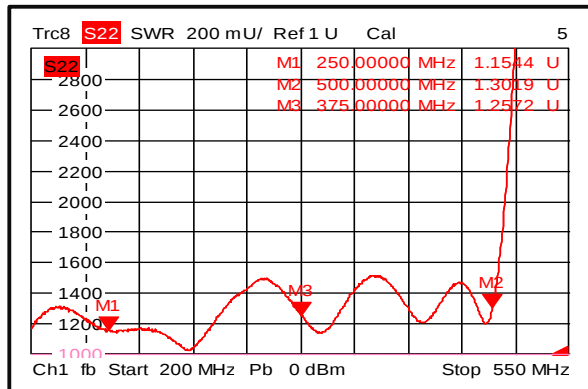
Insertion Loss @ +25°C



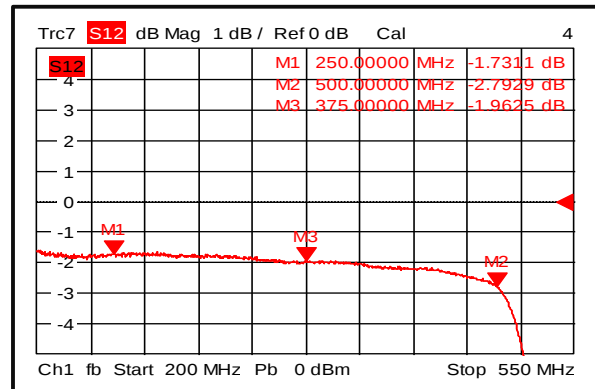
Input VSWR @ +25°C



Output VSWR @ +25°C



Insertion Loss @ -45°C



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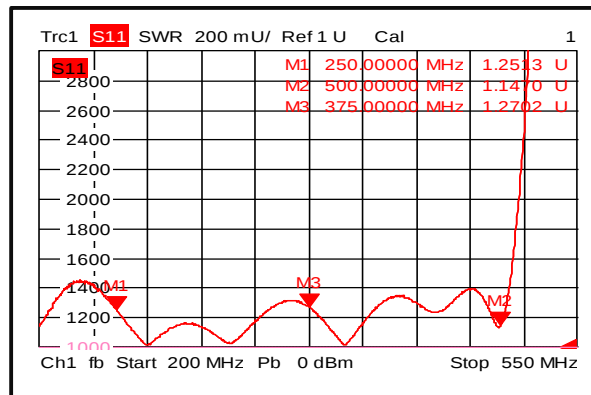


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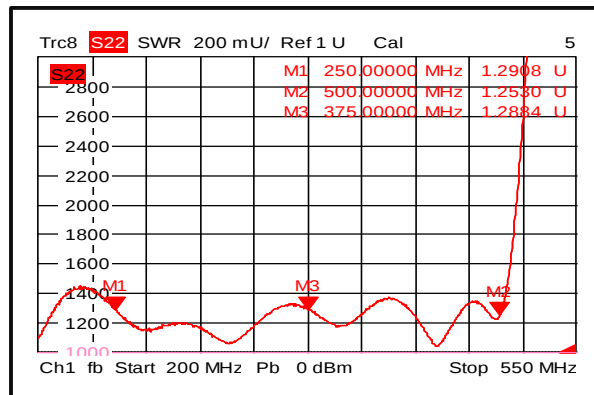
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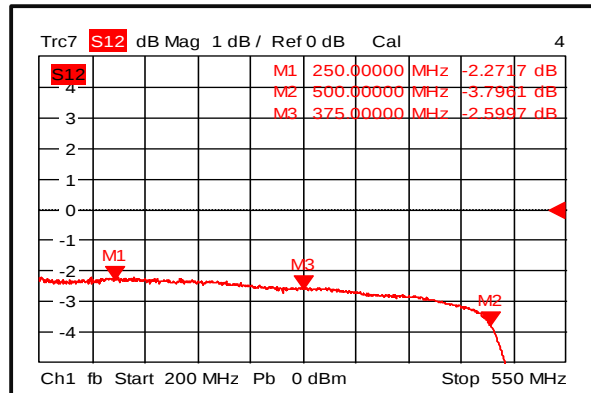
Input VSWR @ -45°C



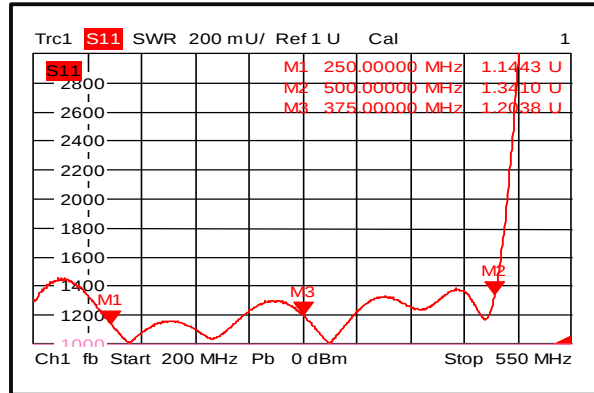
Output VSWR @ -45°C



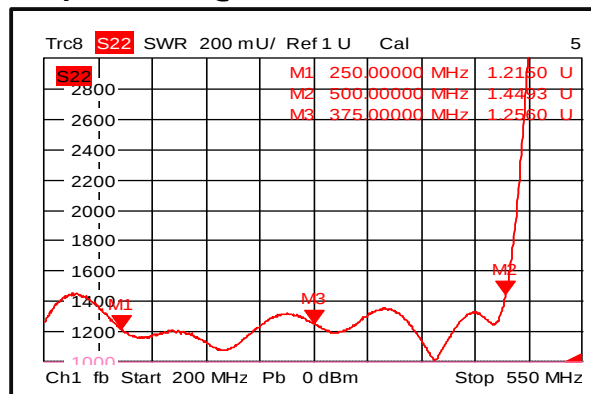
Insertion Loss @ +85°C



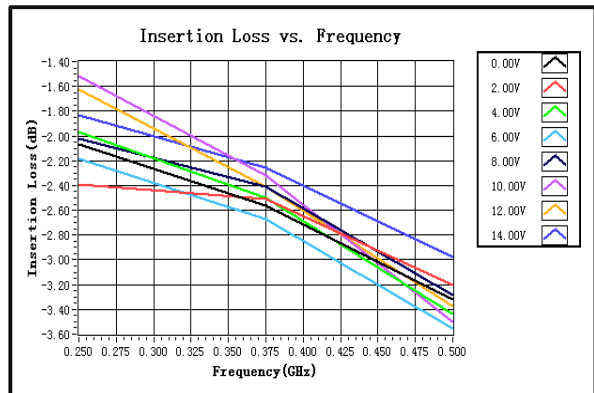
Input VSWR @ +85°C



Output VSWR @ +85°C



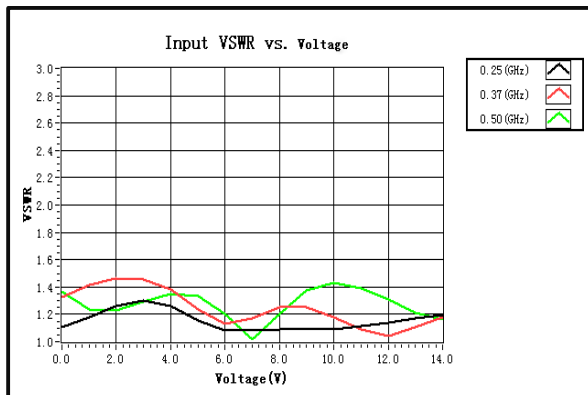
Insertion Loss vs. Frequency



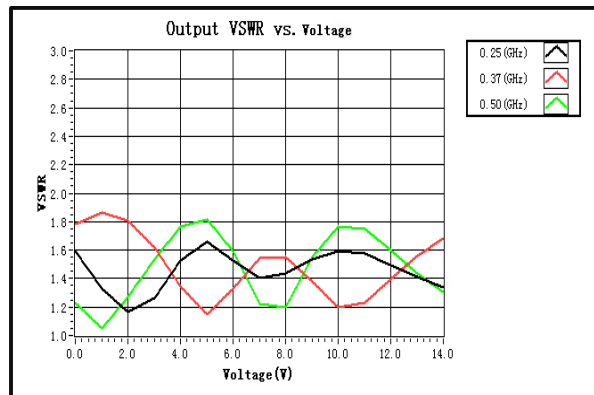
Voltage Control Phase Shifter 250-500MHz



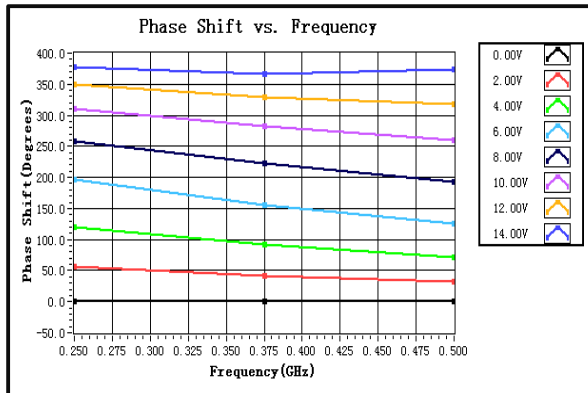
Input VSWR vs. Voltage



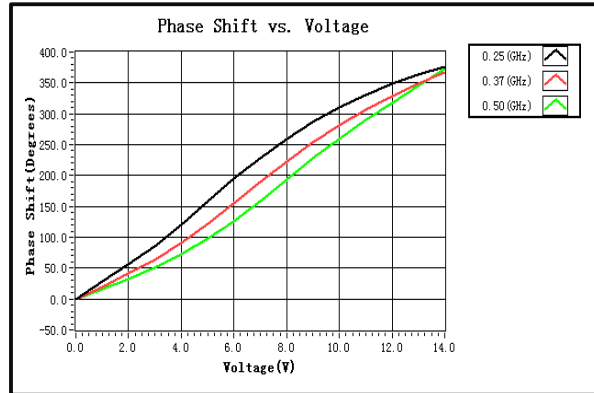
Output VSWR vs. Voltage



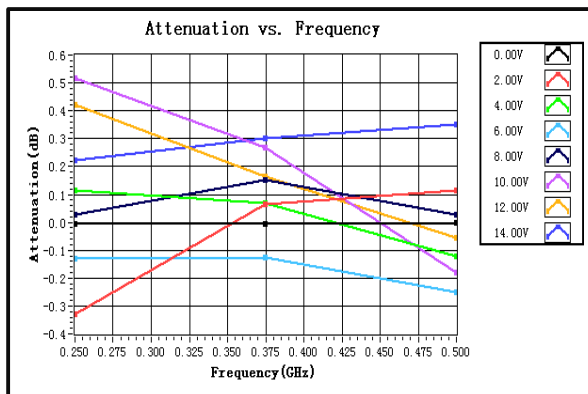
Phase Shift vs. Frequency



Phase Shift vs. Voltage



Attenuation vs. Frequency





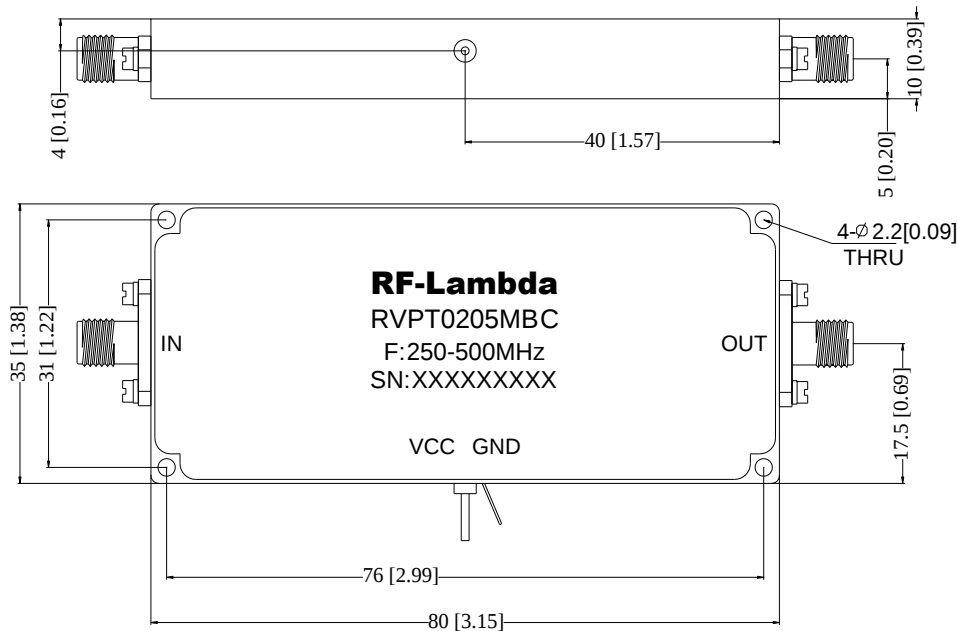
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Outline Drawing:

All Dimensions in mm [inches]



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