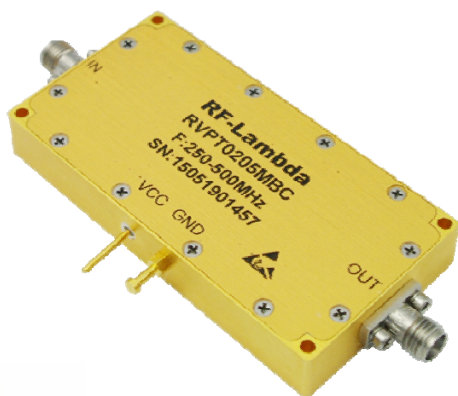




Voltage Control Phase Shifter 250-500MHz



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	0.25~0.5			MHz
Phase Range		360		°
Insertion Loss		3.5	4	dB
Insertion Loss Temperature Coefficient		0.01	0.01	dB/°C
Phase Flatness			±20	°
Control Voltage	0		13	V
Input VSWR		1.8	2	ratio
Output VSWR		1.8	2	ratio
Input Power for 1 dB Compression		27		dBm
IM3		35		dBc
Weight	2			ounces
Impedance	50			Ω
current	5			mA
Input /Output Connector	SMA-Female (Standard)			
Finishing	Gold Plating			
Material	Aluminum			
Seal	Hermetically Sealed (optional)			



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RVPT0205MBC

Absolute Maximum Ratings

Control Voltage	0~ 15V
RF Input power	+27dBm
Operating Temperature(°C)	-45 ~ +85
Storage Temperature(°C)	-50 ~ +125

Ordering Information

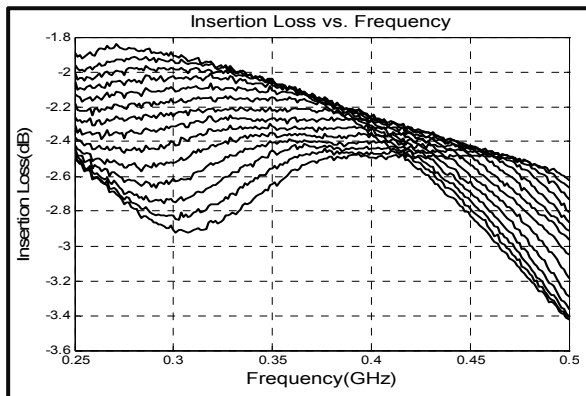
Part No	ECCN	Description
RVPT0205MBC	EAR99	250-500MHz Voltage Control Phase Shifter

Environment specifications

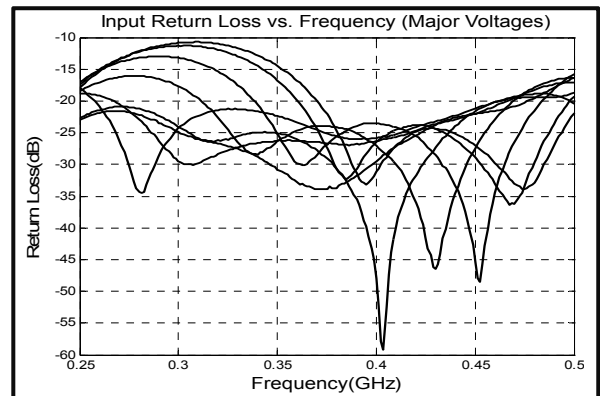
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH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

Typical performance plots

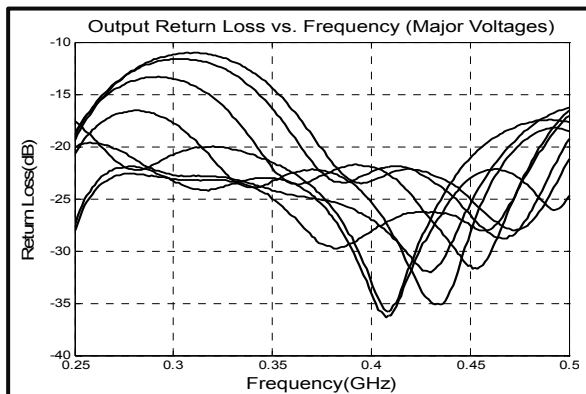
Insertion Loss vs. Frequency



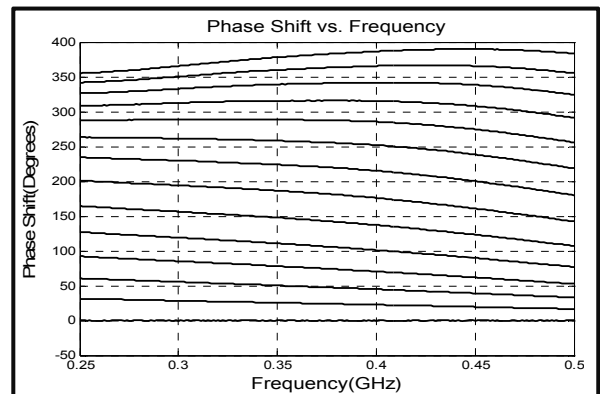
Input Return Loss vs. Frequency



Output Return Loss vs. Frequency



Phase Shift vs. Frequency



Voltage Control Phase Shifter 250-500MHz

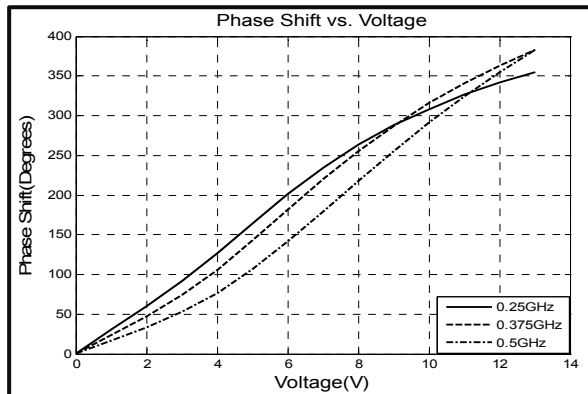


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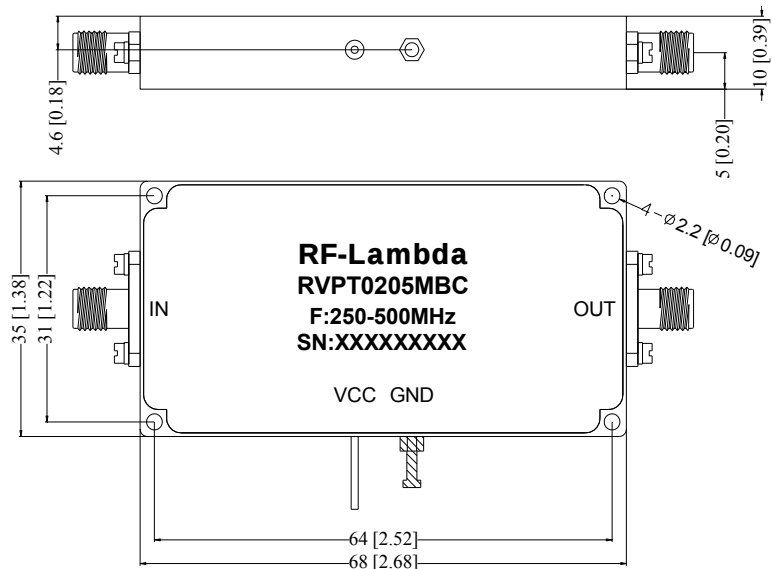
RVPT0205MBC

Phase Shift vs. Voltage



Outline Drawing:

All Dimensions in mm (inches)



Important Notice

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Voltage Control Phase Shifter 250-500MHz