Voltage Control Phase Shifter 100-140MHz

Features

- Wide Band Operation 100-140MHz
- 360° Phase Shift
- Low Insertion Loss and Low Phase Error
- Singe Control Operation
- Customization available upon request

RoHS Compliant

Electrical Specifications, TA = +25 °C, 50 Ohm System

Description	PN:RVPT0120MBC			
	Voltage Control Phase Shifter			
Parameters	Min	Typ.	Max	Units
Frequency Range		100-140		MHz
Phase Range		360		deg
Phase Error		±15		deg
Insertion Loss		3.0	3.5	dB
Insertion Loss Temperature Coefficient		0.01		dB/°C
Input Return loss		18		dB
Output Return loss		18		dB
Input Power for 1 dB Compression		20		dBm
Control Voltage	0	10		V
current		5		mA
Impedance		50		Ω
Weight		2.12		ounces
Input /Output Connector	SMA-Female			
Finishing	Gold Plating			
Material	Aluminum			
Seal	Hermetically Sealed (optional)			

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Absolute Maximum Ratings

Control Voltage	0~ 20V
RF Input power	+20dBm
Operating Temperature(°C)	-45 ~ +85
Storage Temperature(°C)	-50 ~ +125

Environment specifications

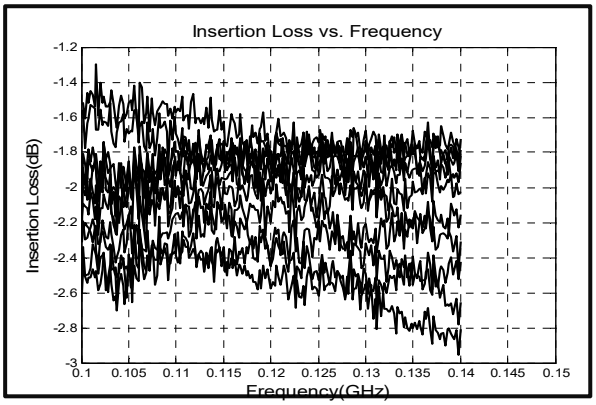
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH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

Ordering Information

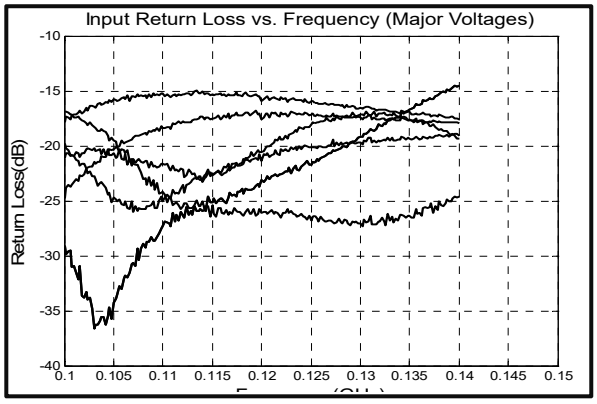
Part No	ECCN	Description
RVPT0120MBC	EAR99	100-140MHz Voltage Control Phase Shifter

Typical performance plots

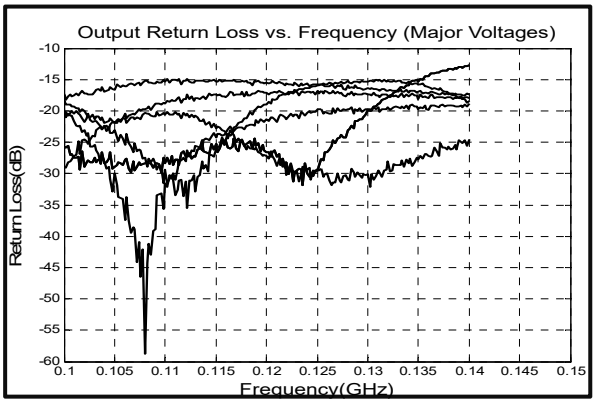
Insertion Loss vs. Frequency



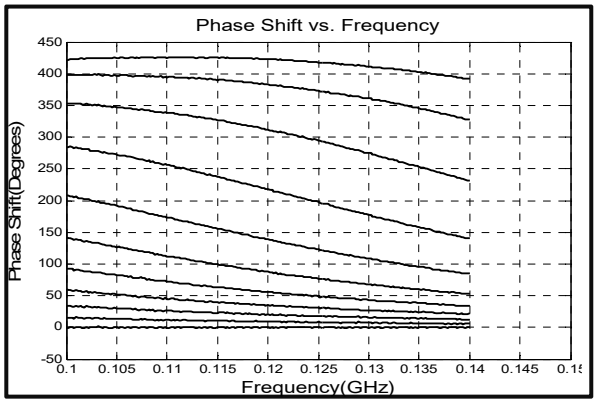
Input Return Loss vs. Frequency



Output Return Loss vs. Frequency



Phase Shift vs. Frequency



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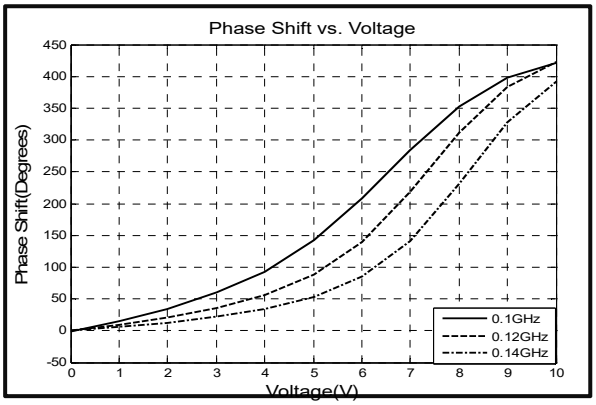
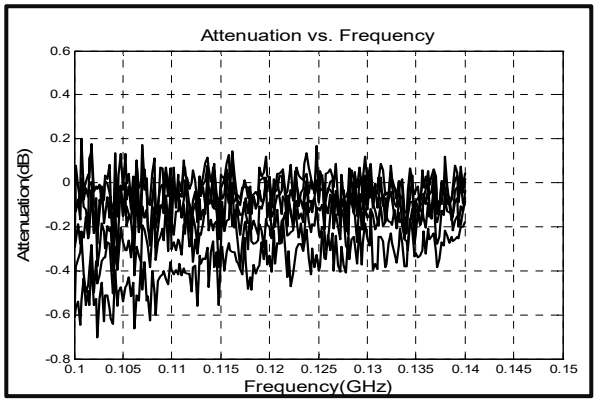
Phase Shift vs. Voltage

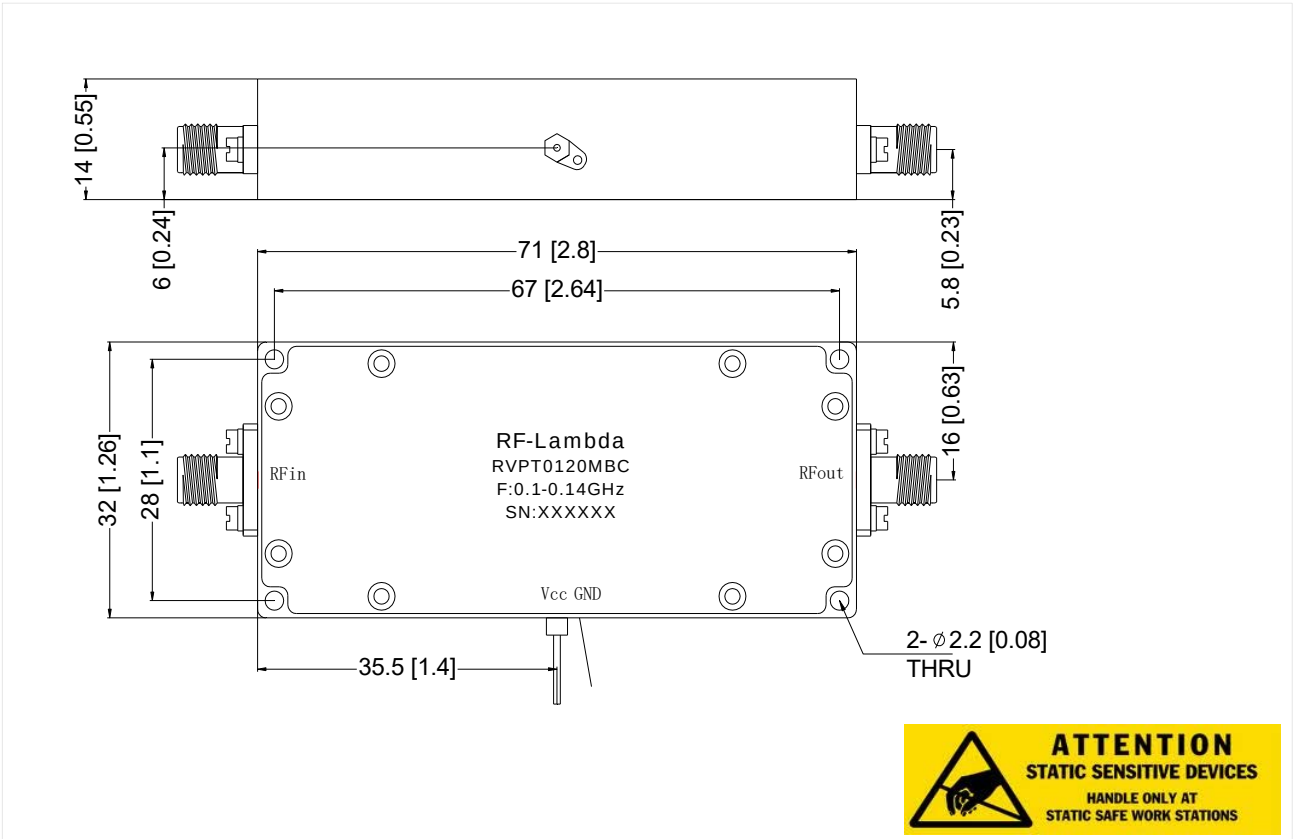


Attenuation VS. Frequency



Outline Drawing:

All Dimensions in mm（inches）



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