Voltage Control Phase Shifter 170-250MHz

Features

- Wide Band Operation 170-250MHz
- 360° Phase Shift
- Low Insertion Loss and Low Phase Error
- Singe Control Operation
- Customization available upon request

RoHS Compliant

Electrical Specifications, TA = +25 °C

Description	PN: RVPT1725MBC			
	Voltage Control Phase Shifter			
Parameters	Min	Typ.	Max	Units
Frequency Range		0.17-0.25		GHz
Phase Range		360		°
Insertion Loss		2.5	4.0	dB
Insertion Loss Temperature Coefficient		0.003		dB/°C
Phase Flatness		±15		°
Control Voltage	0		15	V
Input Return Loss		20		dB
Output Return Loss		20		dB
Input Power for 1 dB Compression		20		dBm
IM3		30		dBc
Weight		1.98		ounces
Impedance		50		Ω
current		5		mA
Input /Output Connector	SMA-Female (Standard)			
Finishing	Gold Plating			
Material	Brass			
Seal	Hermetically Sealed (optional)			

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Absolute Maximum Ratings

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

Environment specifications

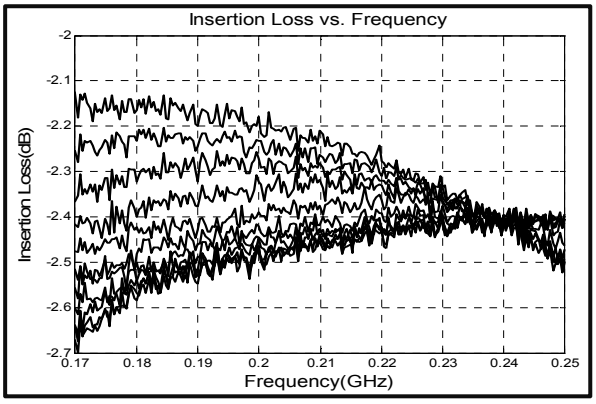
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH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

Ordering Information

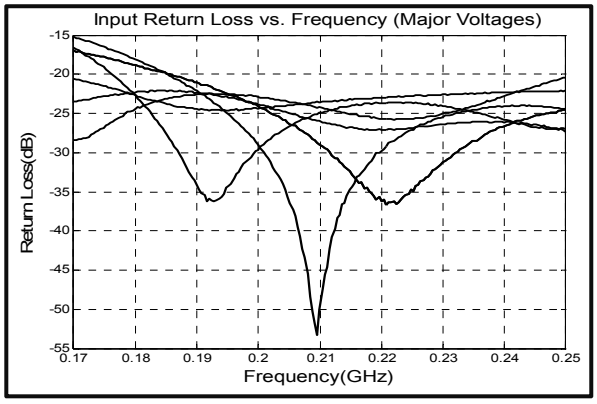
Part No	ECCN	Description
RVPT1725MBC	EAR99	170-250MHz Voltage Control Phase Shifter

Typical performance plots

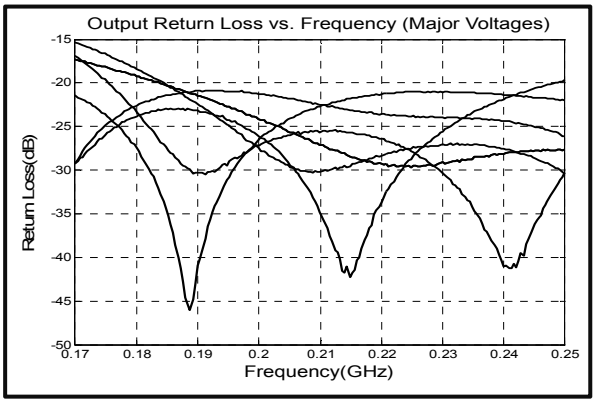
Insertion Loss vs. Frequency



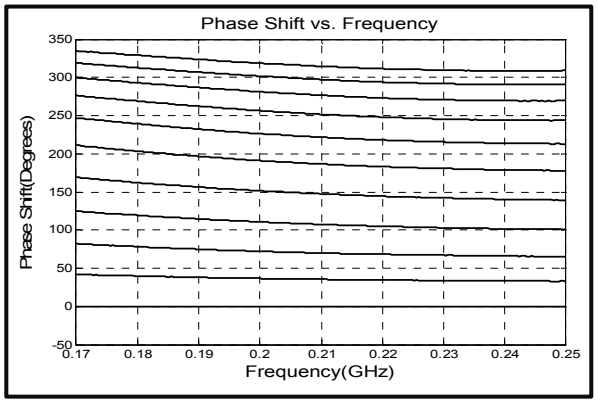
Input Return Loss vs. Frequency



Output Return Loss vs. Frequency



Phase Shift vs. Frequency



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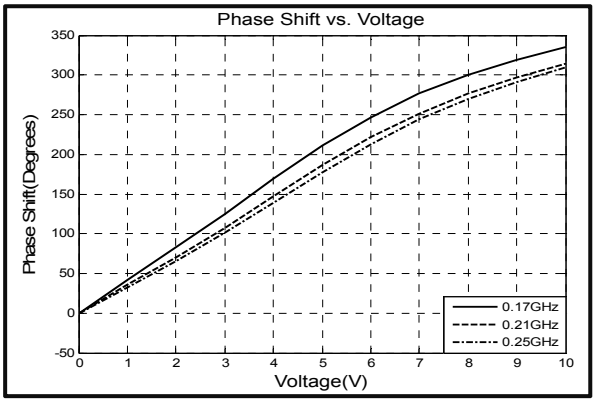
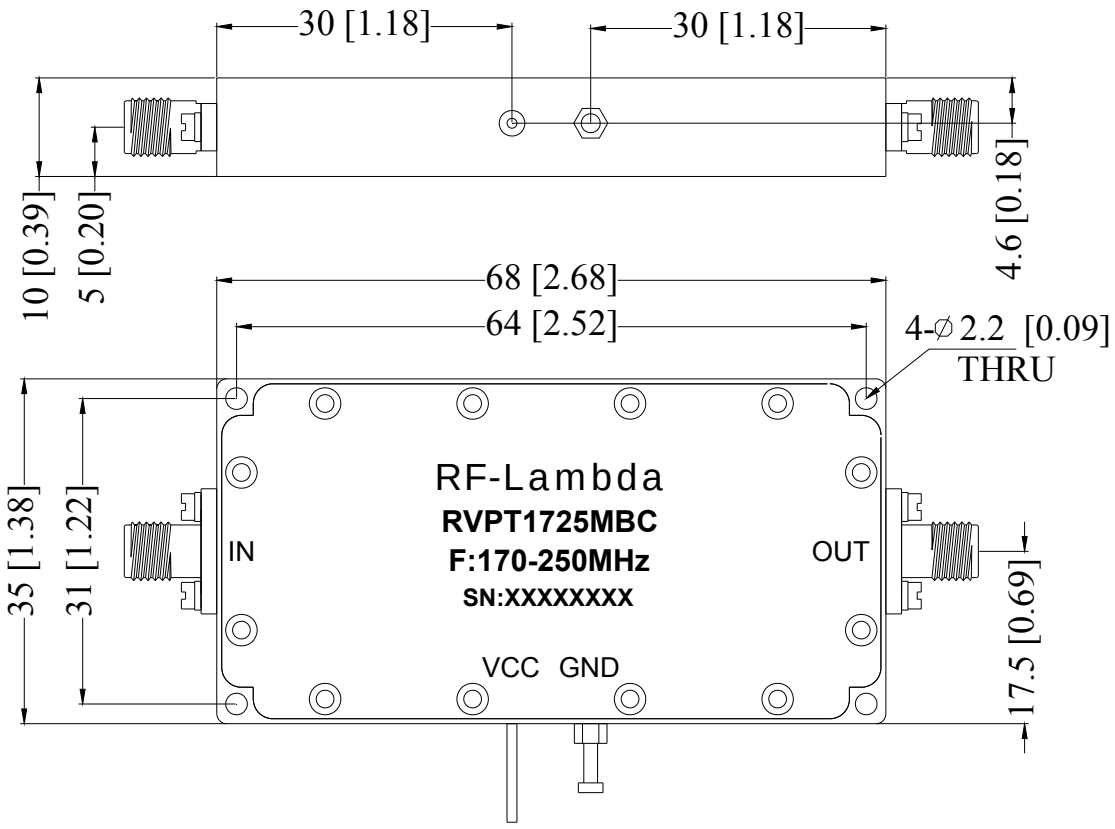
Phase Shift vs. Voltage



Outline Drawing:

All Dimensions in mm（inches）



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