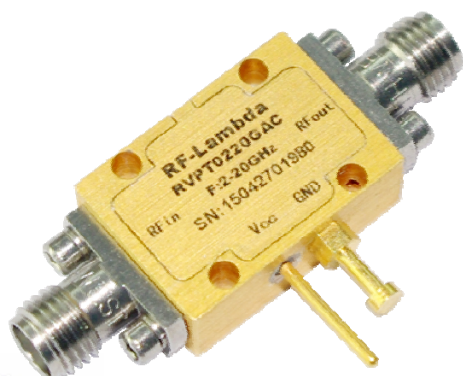




Voltage Control Phase Shifter 2-20GHz



Features

- Ultra Wide Band Operation 2-20GHz
- 180° Phase Shift
- Low Insertion Loss and Low Phase Error
- Single Control Operation
- Customization available upon request

Electrical Specifications, TA = +25 °C

Description	PN:RVPT0220GAC						
	Voltage Control Phase Shifter						
Parameters	Min	Typ.	Max	Min	Typ.	Max	Units
Frequency Range	2-11			11-20			GHz
Phase Range		180			180		°
Insertion Loss		5	6		12	13	dB
Insertion Loss Temperature Coefficient		0.07			0.07		dB/°C
Phase Flatness		±20	±25		±20	±25	°
Control Voltage	0.5	8.5		0.5	8.5		V
Input VSWR		2.5	3		3.3	3.5	ratio
Output VSWR		2.5	3		3.3	3.5	ratio
Input Power for 1 dB Compression		25			25		dBm
IM3		30			30		dBc
Weight	1.2						ounces
Impedance	50						Ω
current	2						mA
Input /Output Connector	SMA-Female/SMA-Female(Standard)						
Finishing	Gold Plating						
Material	Aluminum						
Seal	Hermetically Sealed (optional)						



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RVPT0220GAC

Absolute Maximum Ratings

Control Voltage	-0.5~ 15V
RF Input power	+26dBm
Operating Temperature(°C)	-45 ~ +85
Storage Temperature(°C)	-50 ~ +125

Ordering Information

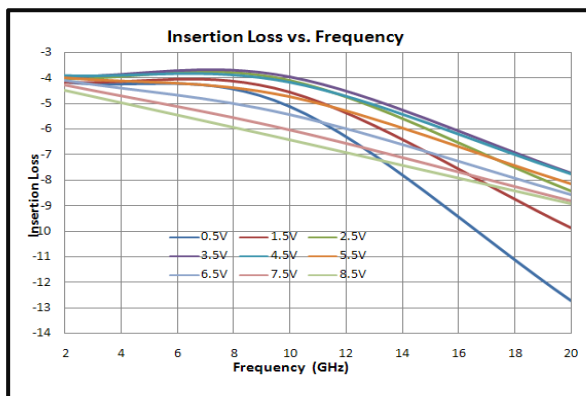
Part No	ECCN	Description
RVPT0220GAC	EAR99	2-20GHz Voltage Control Phase Shifter

Environment specifications

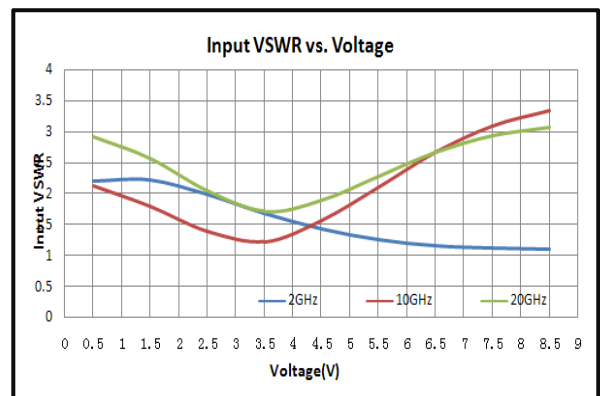
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH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

Typical performance plots

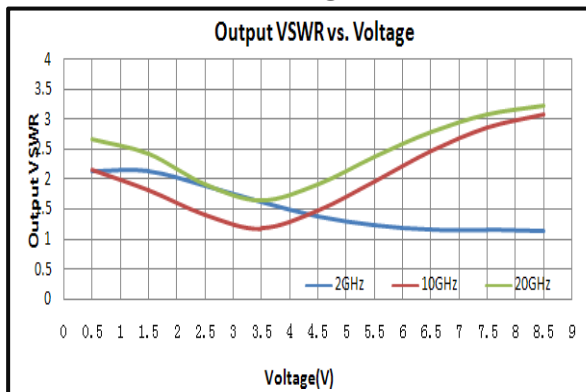
Insertion Loss vs. Frequency



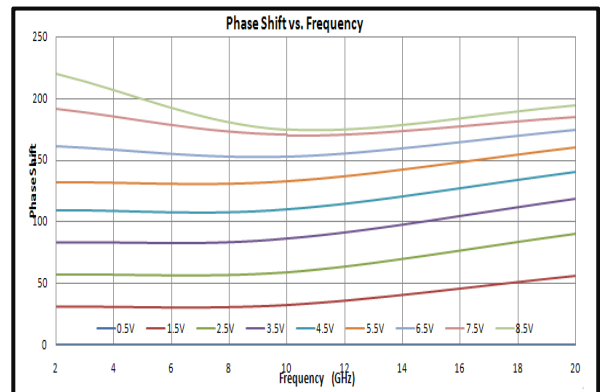
Input VSWR vs. Voltage



Output VSWR vs. Voltage



Phase Shift vs. Frequency



Voltage Control Phase Shifter 2-20GHz

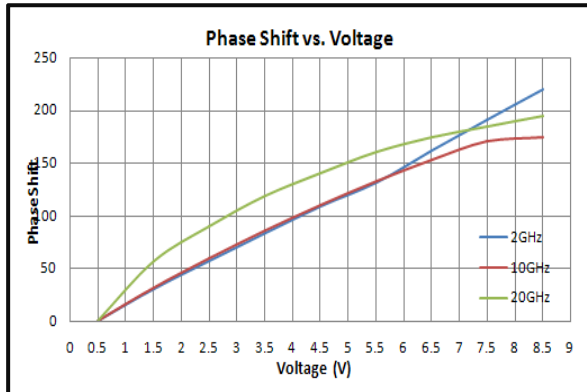


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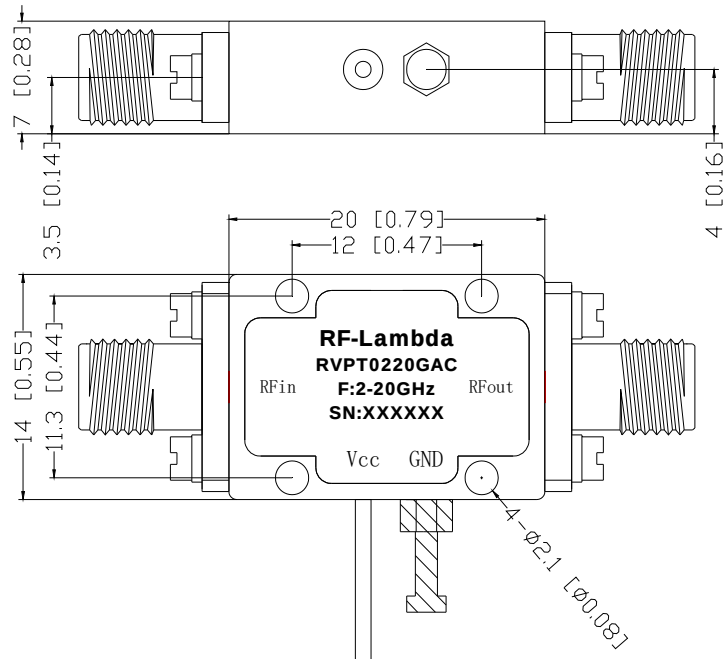
RVPT0220GAC

Phase Shift vs. Voltage



Outline Drawing:

All Dimensions in mm (inches)



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Voltage Control Phase Shifter 2-20GHz