



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RVPT0818GBC

Voltage Control Phase Shifter 8 - 18GHz



Features

- Wide Band Operation 8-18GHz
- 360° Phase Shift
- Low Insertion Loss and Low
- Single Control Operation
- Customization available upon request

Electrical Specifications, TA = +25°C

Description	PN: RVPT0818GBC			
	Voltage Control Phase Shifter			
Parameters	Min	Typ.	Max	Units
Frequency Range	8		18	GHz
Phase Range		360		°
Insertion Loss		6.0		dB
Insertion Loss Temperature Coefficient		0.003		dB/°C
Phase Flatness		±15		°
Control Voltage	0	13		V
Input Return Loss		10		dB
Output Return Loss		10		dB
0.1dB Compression Point (Po.1dB)		23		dBm
Current	5			mA
Impedance	50			Ω
Weight	0.71			ounces
Input / Output Connectors	SMA-Female			
Finish	Gold Plated			
Material	Copper			
Sealing	Hermetically Sealed (Optional)			

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Absolute Maximum Ratings

Control Voltage	0~15V
RF Input power	+26dBm

Ordering Information

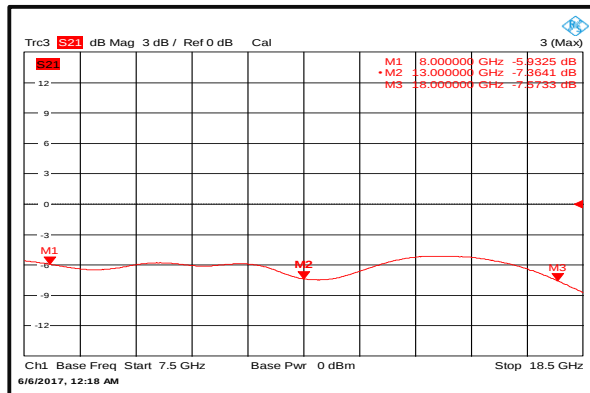
Part No.	ECCN	Description
RVPT0818GBC	EAR99	8-18GHz Voltage Control Phase Shifter

Environmental Specifications

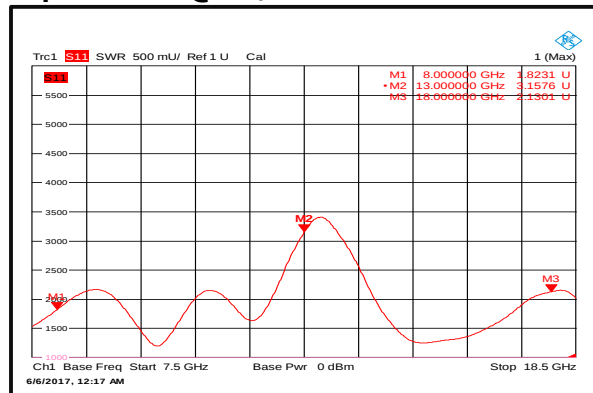
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c,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

Typical Performance Plots

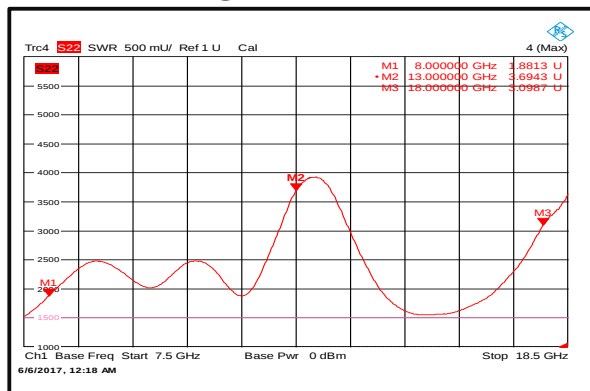
Insertion Loss @ +25°C



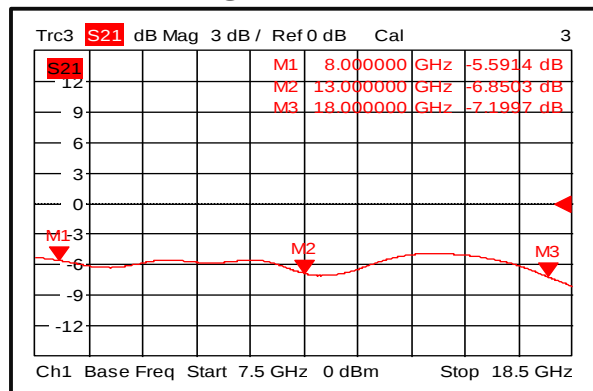
Input VSWR @ +25°C



Output VSWR @ +25°C



Insertion Loss @ -45°C



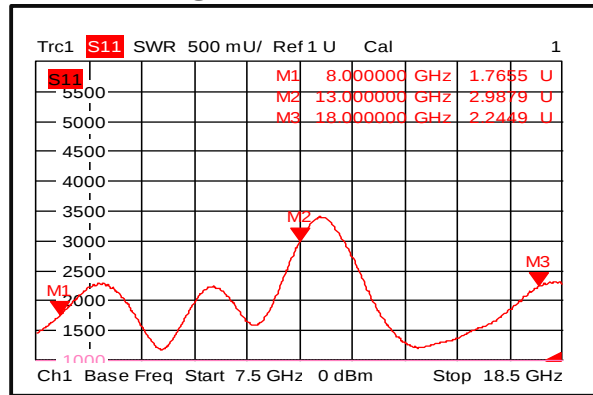


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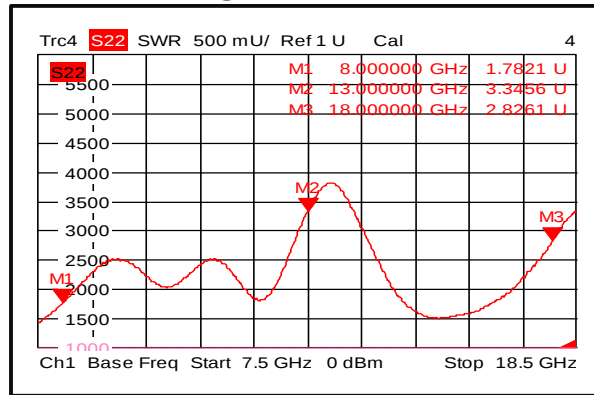
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RVPT0818GBC

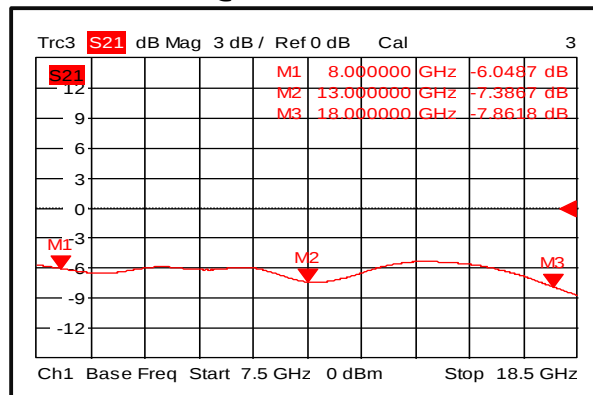
Input VSWR @ -45°C



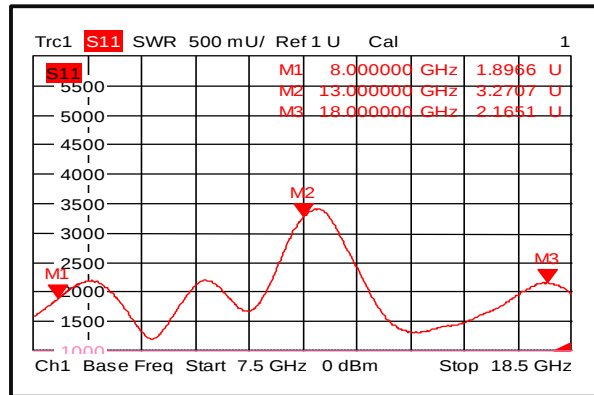
Output VSWR @ -45°C



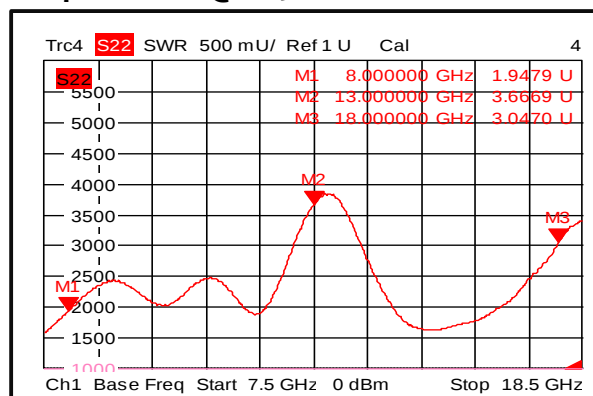
Insertion Loss @ +85°C



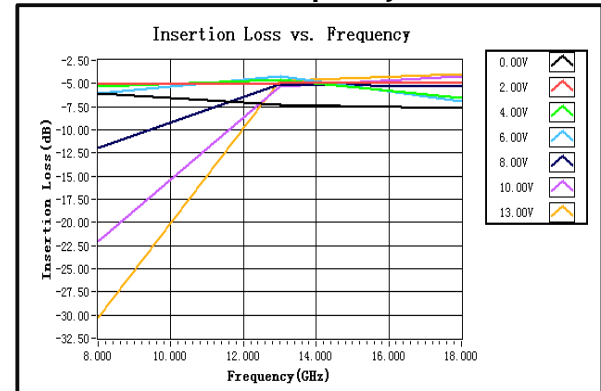
Input VSWR @ +85°C



Output VSWR @ +85°C



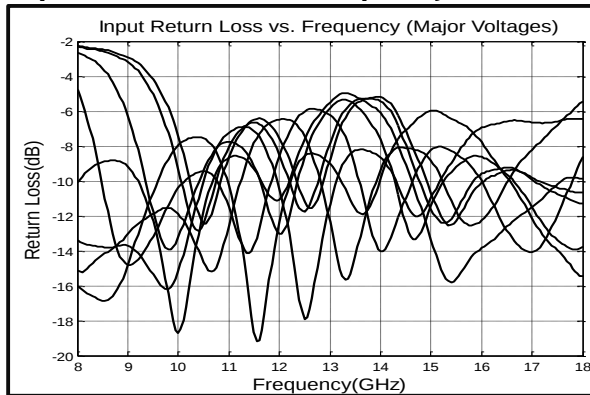
Insertion Loss vs. Frequency



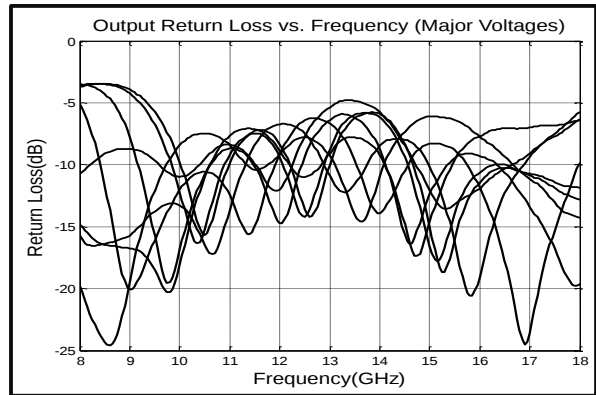
Voltage Control Phase Shifter 8 - 18GHz



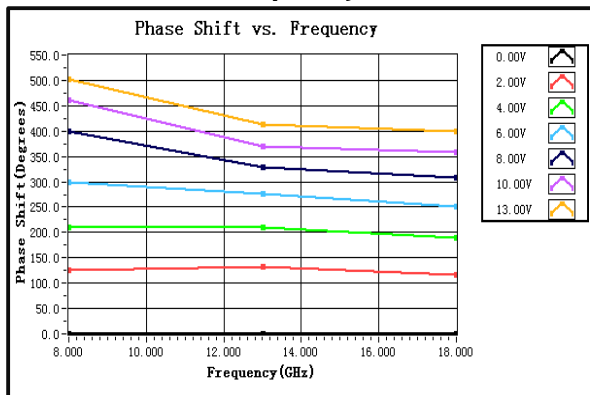
Input Return Loss vs. Frequency



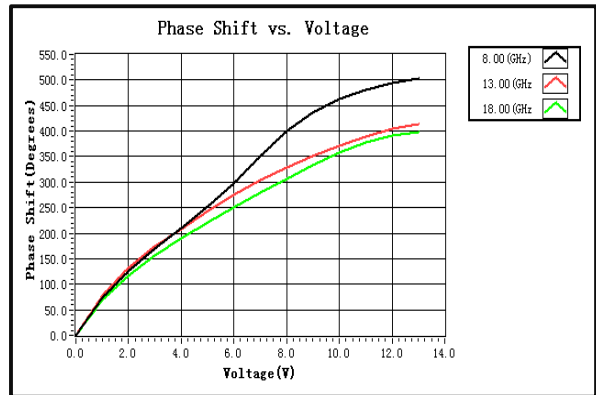
Output Return Loss vs. Frequency



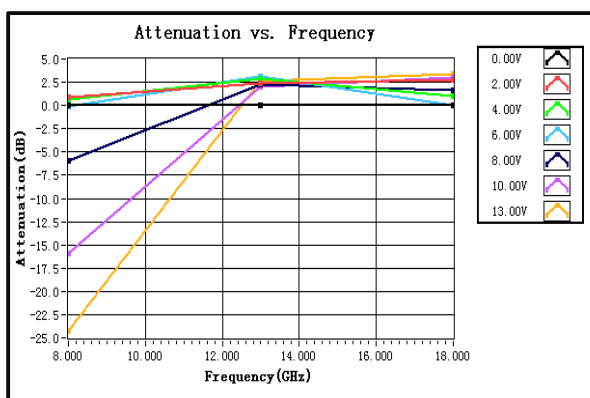
Phase Shift vs. Frequency



Phase Shift vs. Voltage



Attenuation vs. Frequency





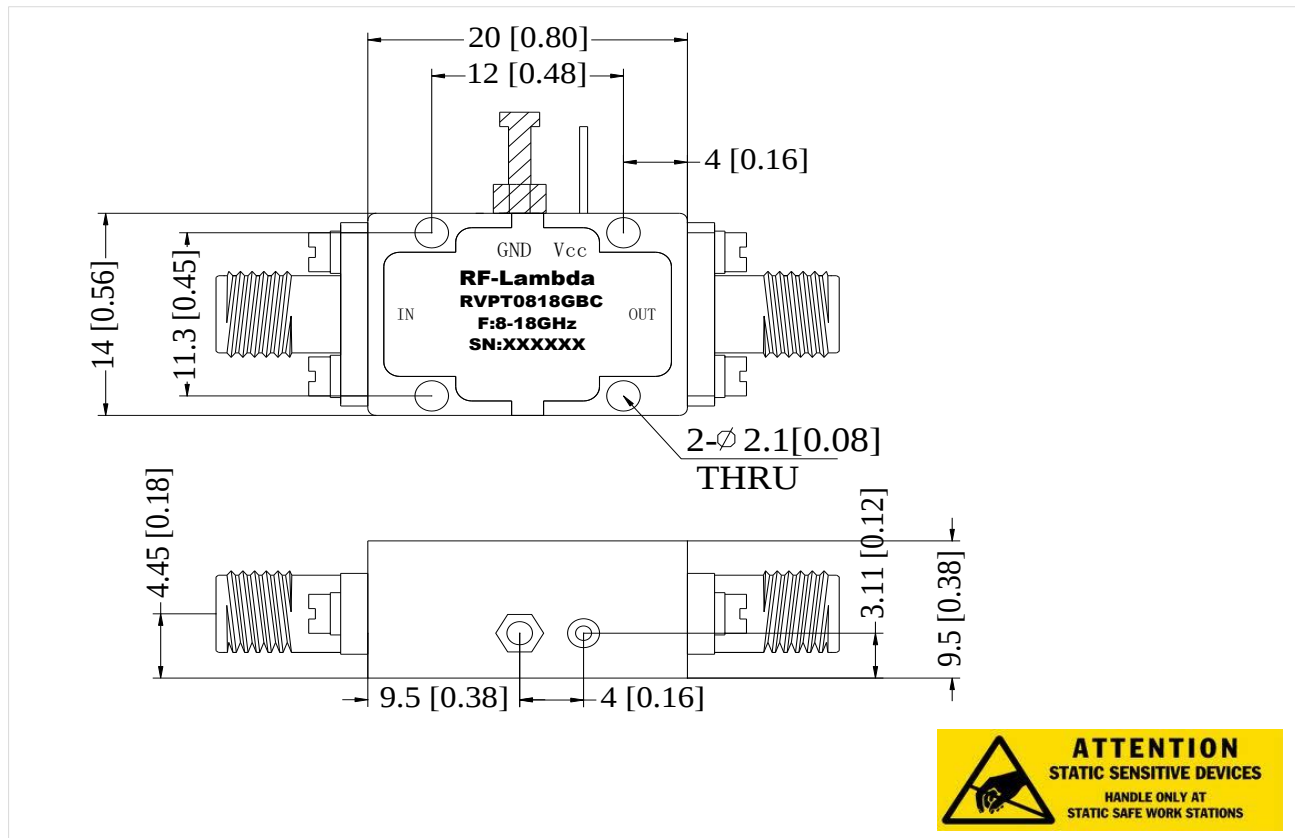
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Outline Drawing:

All Dimensions in mm [inches]



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