Voltage Control Phase Shifter 155-165MHz

Features

- Wide Band Operation 155-165MHz
- 500° Phase Shift
- Low Insertion Loss and Low Phase Error
- Singe Control Operation
- Customization available upon request

Parameters	Min	Typ.	Max	Units
Frequency Range		155-165		MHz
Phase Range	500			degrees
Phase Flatness			±10	degrees
Insertion Loss		5.5	6.5	dB
Insertion Loss Temperature Coefficient		0.01		dB/ ° C
Control Voltage	0	10		V
Input VSWR		1.3	1.6	: 1
Output VSWR		1.3	1.6	: 1
0.1dB Compression Point (P0.1dB)		23		dBm
Current		5 Max.		mA
Impedance		50		Ω
Weight		0.35 Max.		ounces
Finish		Nickel Plated		
Material		Aluminum		
Package		SMD		

Absolute Maximum Ratings

Control Voltage	0~ 13V
RF Input power	+23dBm

Environmental Specifications

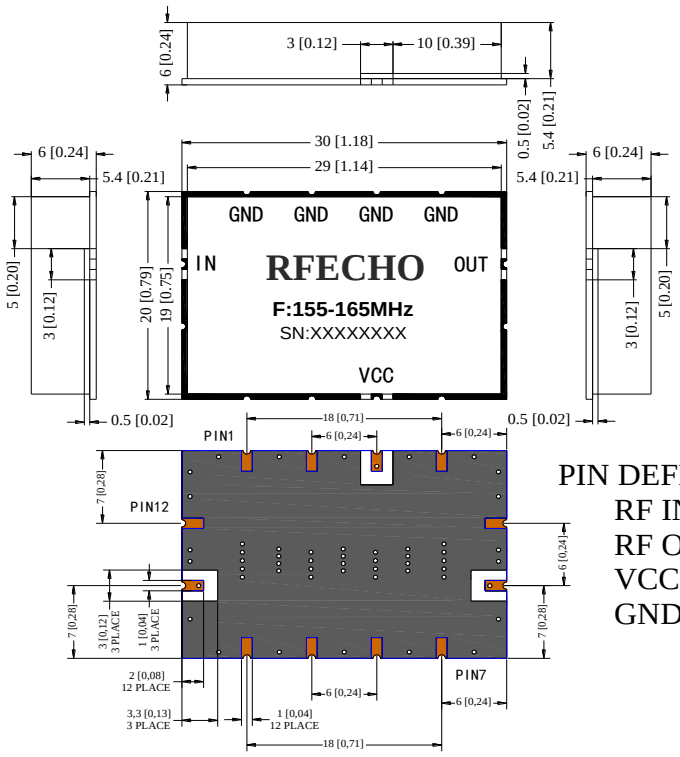
Operational Temperature	-40ºC~+85ºC
Storage Temperature	-50ºC~+105ºC
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35ºc, 95%RH at 40ºc
Shock	20G for 11msec half sine wave,3 axis both directions

Ordering Information

Part No.	Description
DBVCPS00150016A	155-165MHz Voltage Phase Shifter

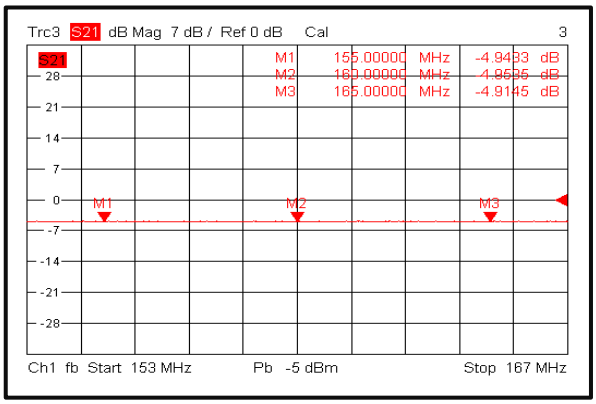
Outline Drawing:

All Dimensions in mm (inches)

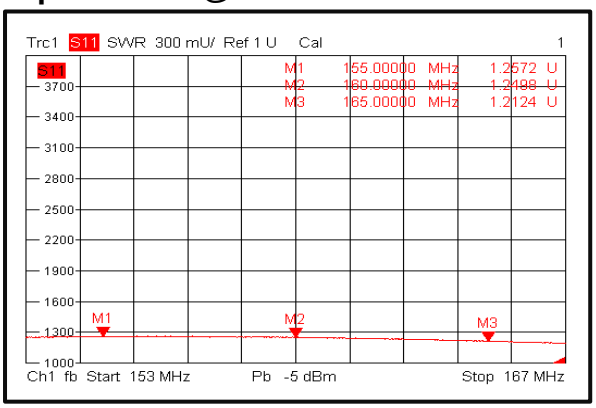


PIN DEFINITION
RF IN :11
RF OUT :6
VCC :3
GND :1,2,4,5,7,
8,9,10,12

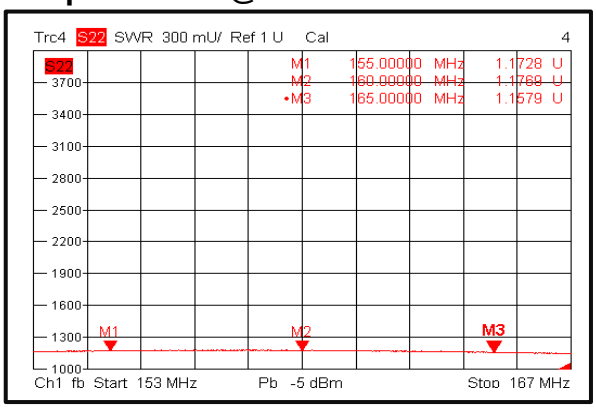
Insertion Loss @ +25℃



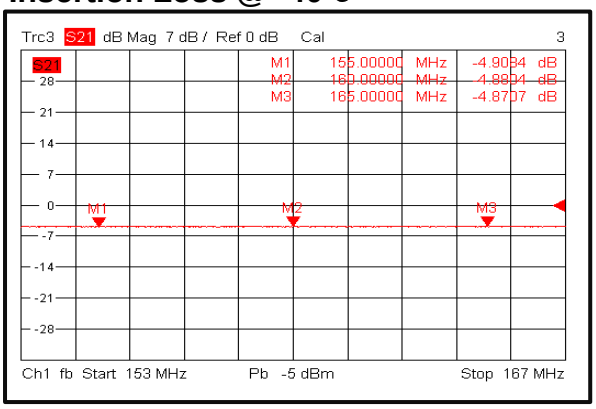
Input VSWR @ +25℃



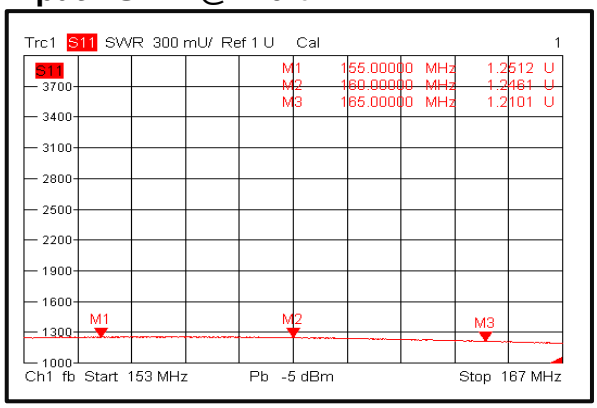
Output VSWR @ +25℃



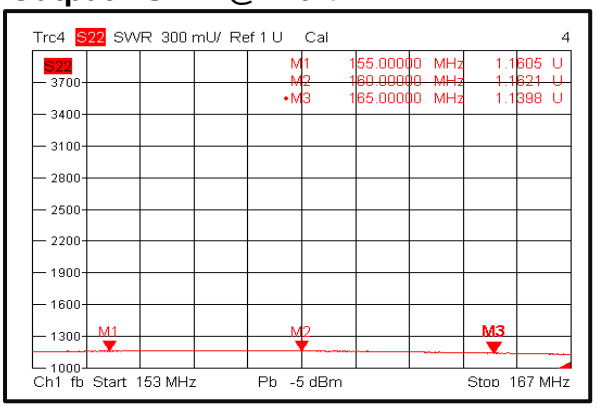
Insertion Loss @ -40℃



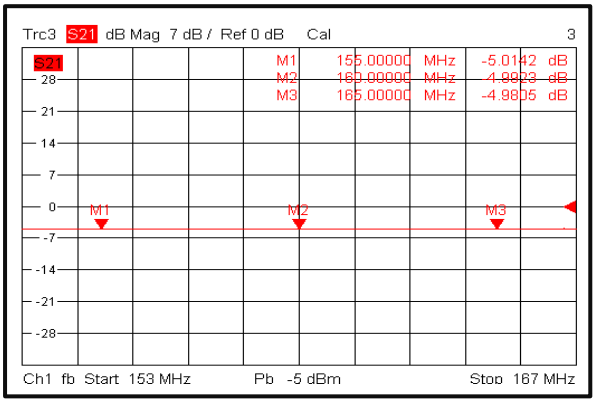
Input VSWR @ -40℃



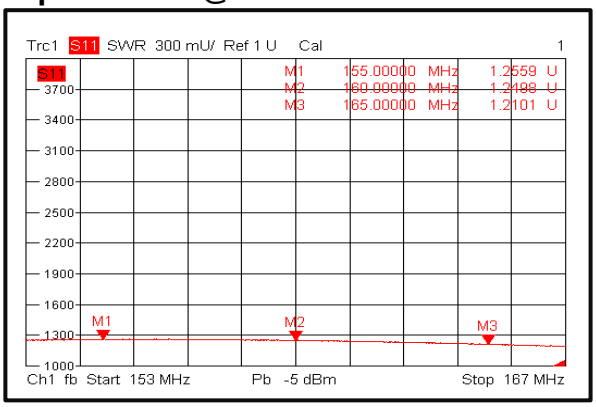
Output VSWR @ -40℃



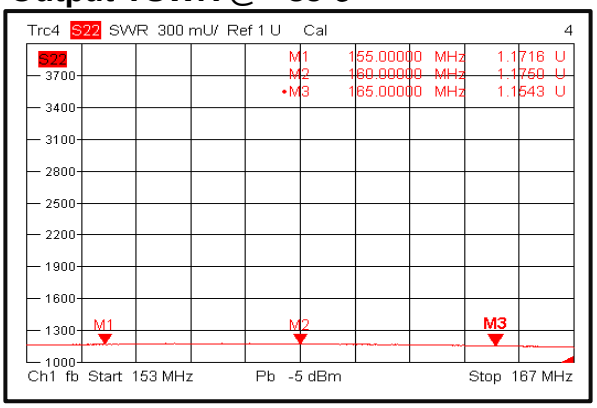
Insertion Loss @ +85℃



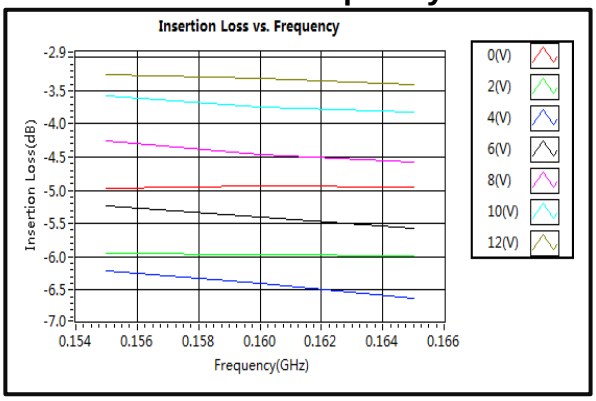
Input VSWR @ +85℃



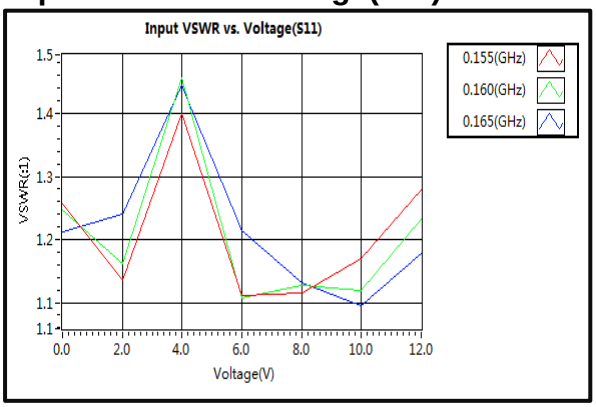
Output VSWR @ +85℃



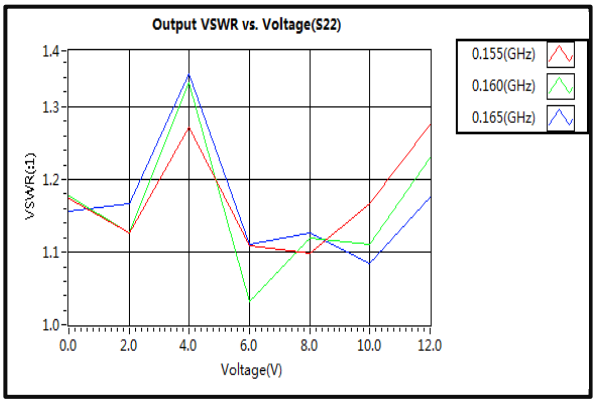
Insertion Loss vs. Frequency



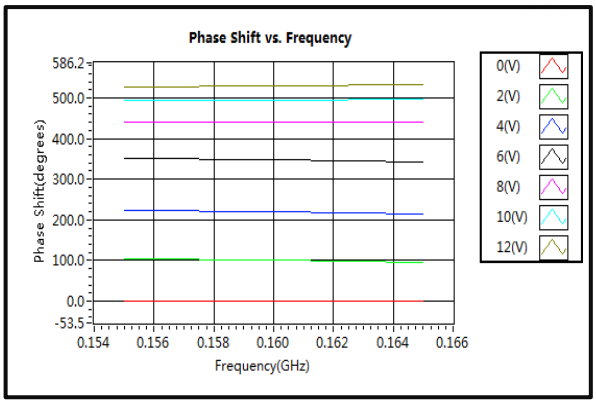
Input VSWR vs. Voltage(s11)



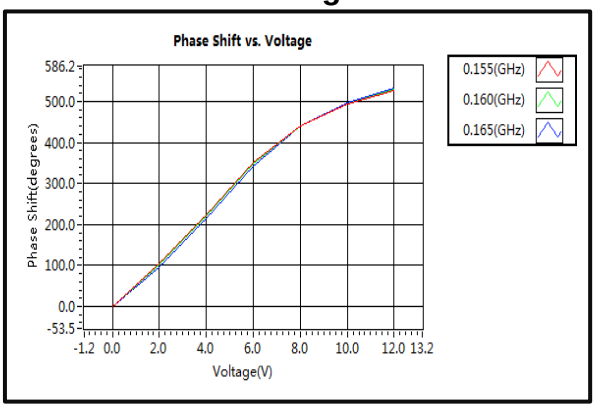
Output VSWR vs. Voltage(s22)



Phase Shift vs. Frequency



Phase Shift vs. Voltage



Normalized Attenuation vs. Frequency