



Voltage Controlled Phase Shifter

900 - 1050MHz

Features

- Wide Band Operation (900-1050MHz)
- 180°Phase Shift
- Low Insertion Loss and Low Phase Error
- Single Voltage Control Operation
- Customization available upon request



| Parameters | Min. | Typ. | Max. | Units |
|--|---------------|------|------|--------|
| Frequency Range | 900-1050 | | | MHz |
| Phase Range | | 180 | | ° |
| Insertion Loss | | 2.5 | 3.0 | dB |
| Insertion Loss Temperature Coefficient | | 0.01 | | dB/ °C |
| Phase Flatness | | ±10 | | ° |
| Control Voltage | 0 | 15 | | V |
| Input VSWR | | | 1.5 | : 1 |
| Output VSWR | | | 1.5 | : 1 |
| 0.1dB Compression Point (P0.1dB) | | 35 | | dBm |
| Ip3 Input | | 35 | | dBm |
| Weight | 0.35 Max. | | | ounces |
| Impedance | 50 | | | Ω |
| Bias Current | 5 | | | mA |
| Finish | Gold Plated | | | |
| Material | Aluminum | | | |
| Package | Surface Mount | | | |



Absolute Maximum Ratings

| | |
|-----------------|--------|
| Control Voltage | 0~20V |
| RF Input power | +37dBm |

Environmental Specifications

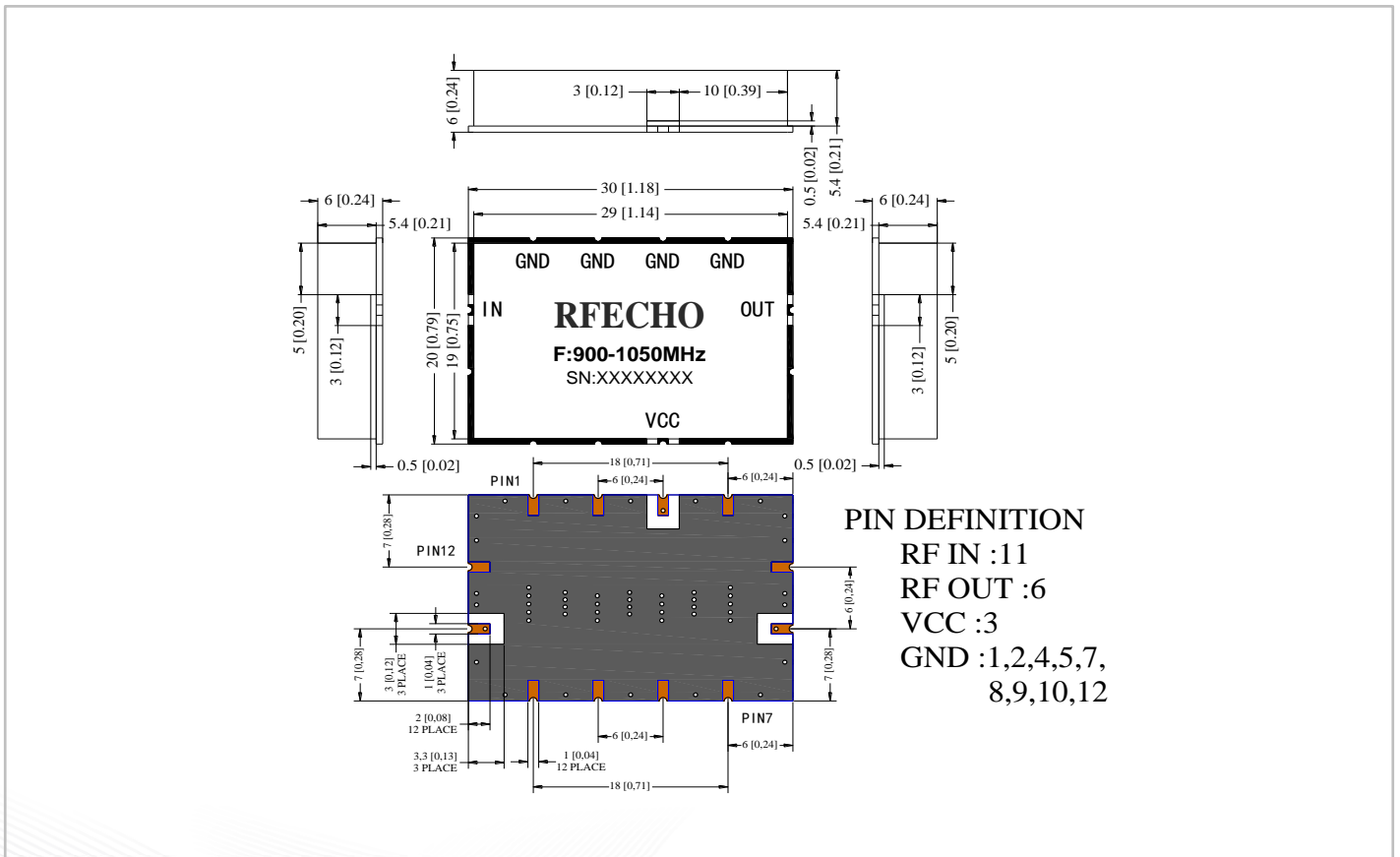
| | |
|-------------------------|--|
| Operational Temperature | -40°C~+85°C |
| Storage Temperature | -50°C~+105°C |
| Altitude | 30,000 ft. (Epoxy Sealed Controlled environment) |
| | 60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional) |
| Vibration | 25g RMS (15 degrees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

Ordering Information

| Part No. | Description |
|-----------------|-----------------------------------|
| DBVCPS00950105A | 0.9-1.05GHz Voltage Phase Shifter |

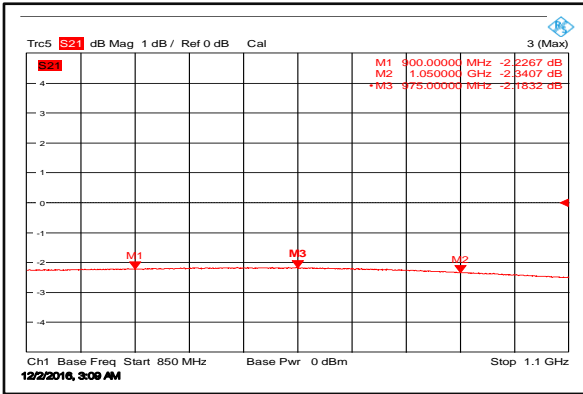
Outline Drawing:

All Dimensions in mm (inches)

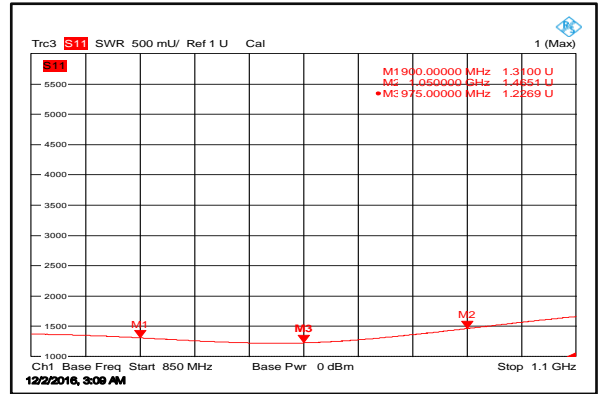




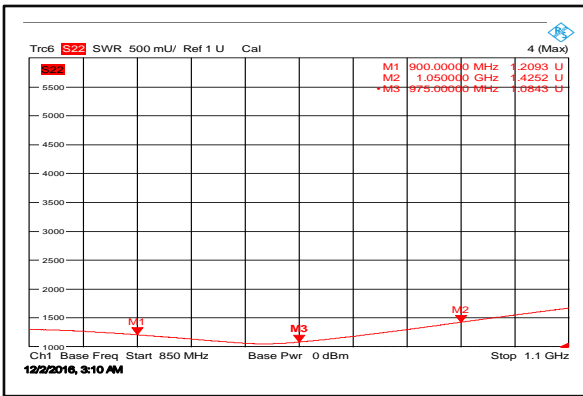
Insertion Loss



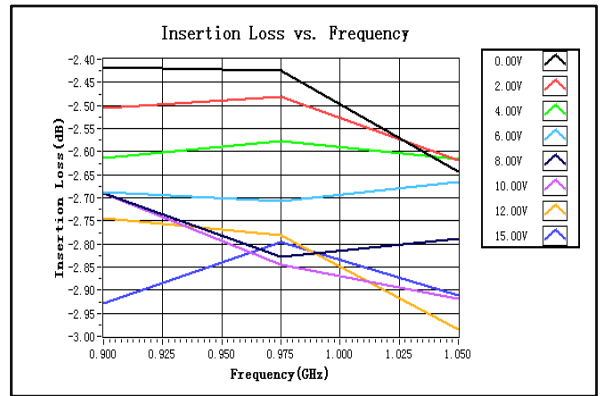
Input VSWR



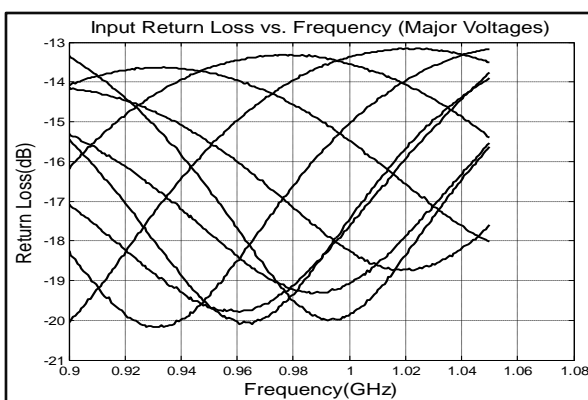
Output VSWR



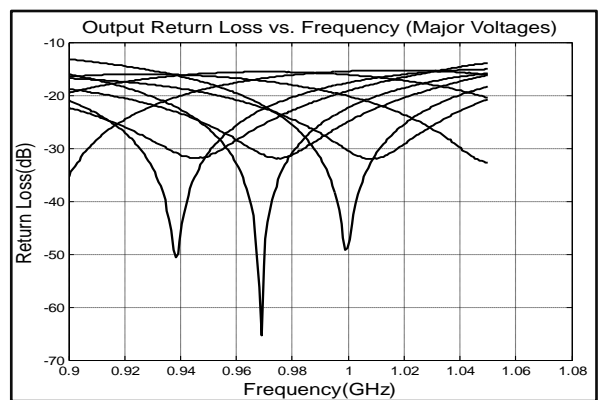
Insertion Loss vs. Frequency



Input Return Loss vs. Frequency

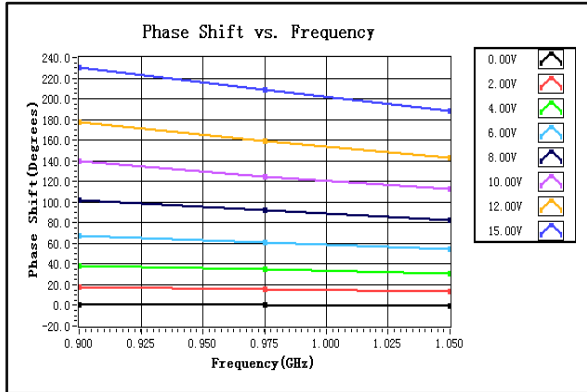


Output Return Loss vs. Frequency

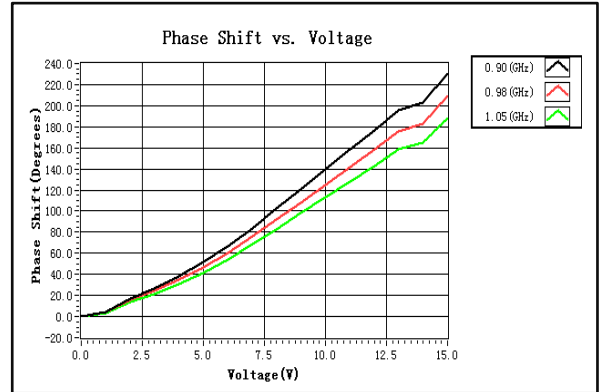




Phase Shift vs. Frequency



Phase Shift vs. Voltage



Attenuation vs. Frequency

