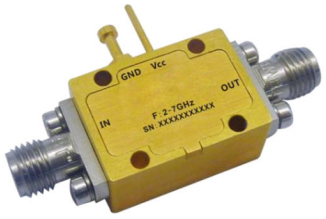
# Voltage Control Phase Shifter 2-7GHz




## Features

- Wide Band Operation 2-7GHz
- 180° Phase Shift
- Low Insertion Loss and Low Phase Error
- Singe Voltage Control Operation

| Parameters | Min. | Typ. | Max. | Units |
|---|---|---|---|---|
| Frequency Range | 2 | | 7 | GHz |
| Phase Range | 180 | | | deg |
| Insertion Loss | | 3.0 | 5.5 | dB |
| Insertion Loss Temperature Coefficient | | 0.003 | | dB/ °C |
| Phase Flatness | | ±15 | | deg |
| Control Voltage | 0 | 14 | | V |
| Input VSWR | | 3.0 | | :1 |
| Output VSWR | | 3.0 | | :1 |
| 0.1dB Compression Point (P0.1dB) | | 15 | | dBm |
| Current | 2 Max. | | | mA |
| Impedance | 50 | | | Ω |
| Weight | 0.4 Max. | | | Ounces |
| Input / Output Connectors | SMA-Female | | | |
| Finish | Gold Plated | | | |
| Material | Aluminum | | | |
| Package Sealing | Hermetically Sealed (Optional) | | | |

## Absolute Maximum Ratings

| | |
|---|---|
| Control Voltage | 0~ 18V |
| RF Input power | +20dBm |

## Environmental Specifications

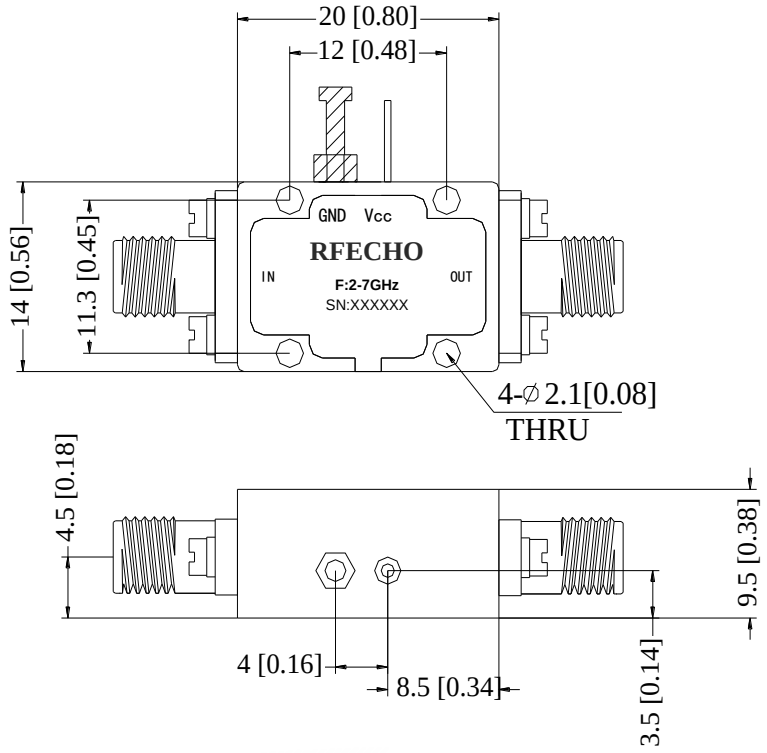
| | |
|---|---|
| Operational Temperature | -40ºC~+85ºC |
| Storage Temperature | -55ºC~+125ºC |
| Altitude | 30,000 ft. (Epoxy Sealed Controlled environment) |
| | 60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional) |
| Vibration | 25g RMS (15 degrees 2KHz) endurance, 1 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

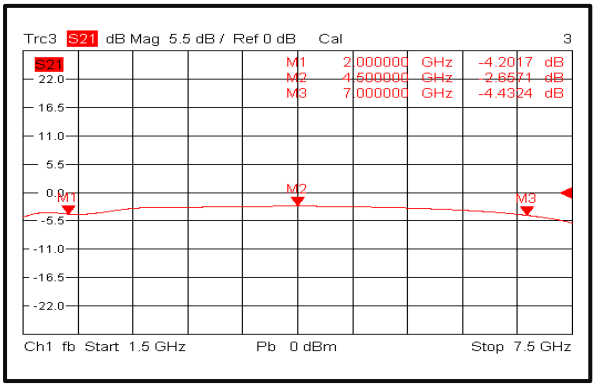
| Part No. | Description |
|---|---|
| DBVCPS02000700A | 2-7GHz Voltage Phase Shifter |

## Outline Drawing:

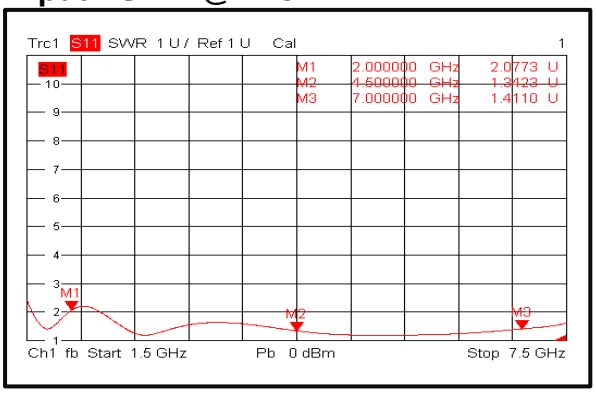
All Dimensions in mm (inches) Tolerances ±0.1 (0.004)



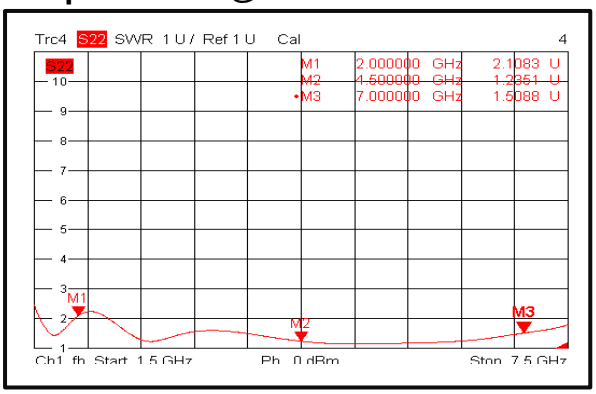
## Insertion Loss @ +25℃



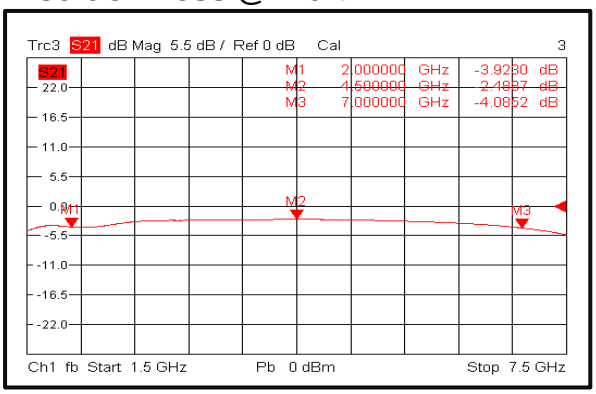

## Input VSWR @ +25℃



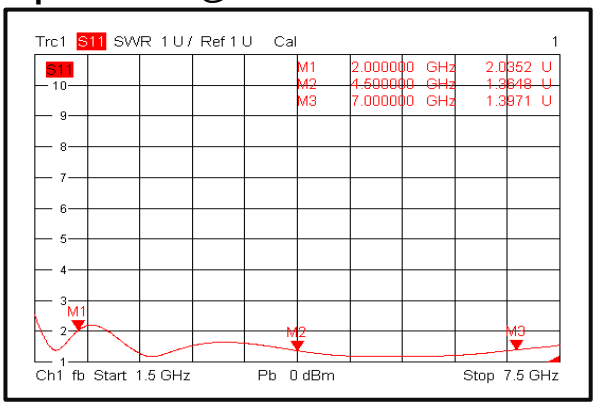

## Output VSWR @ +25℃



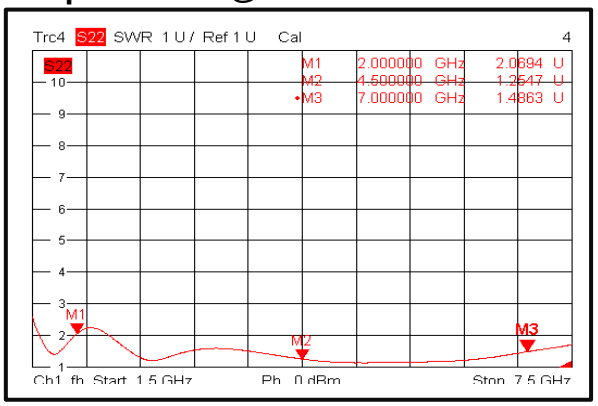

## Insertion Loss @ -40℃



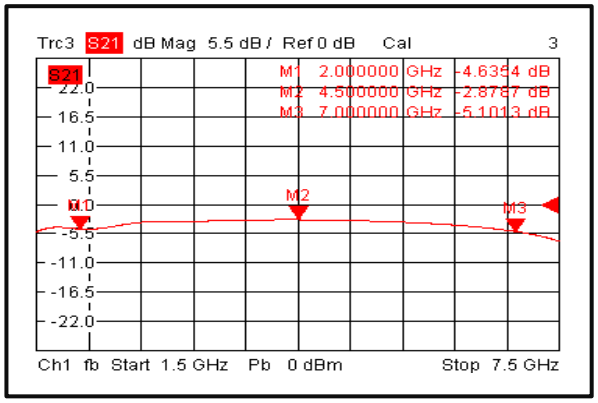

## Input VSWR @ -40℃



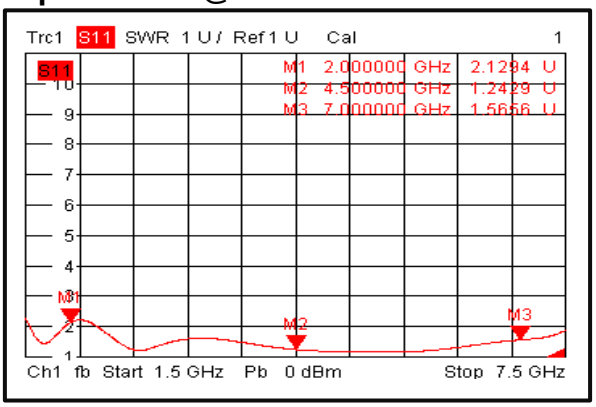

## Output VSWR @ -40℃



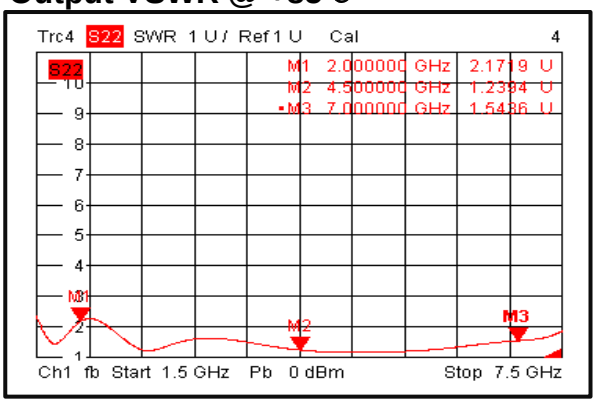
## Insertion Loss @ +85℃



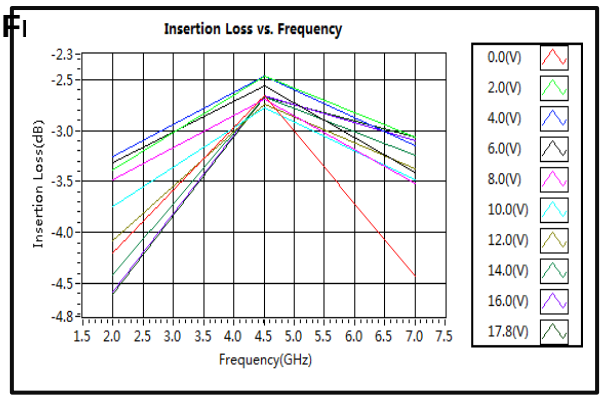

## Input VSWR @ +85℃



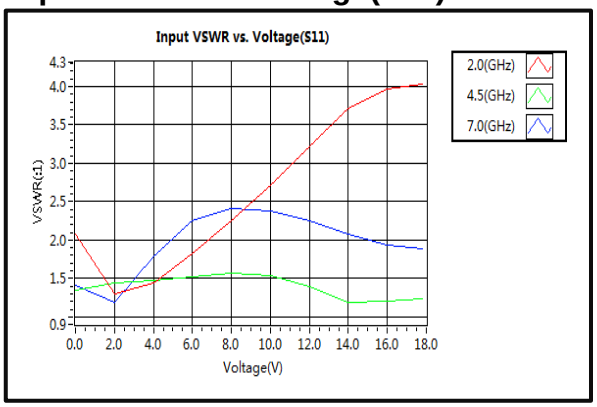

## Output VSWR @ +85℃



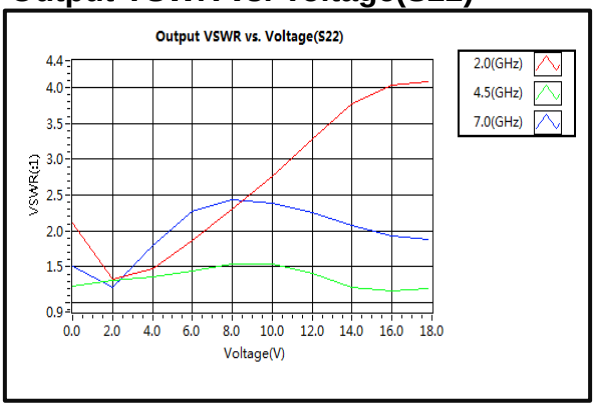

## Insertion Loss vs. Fl



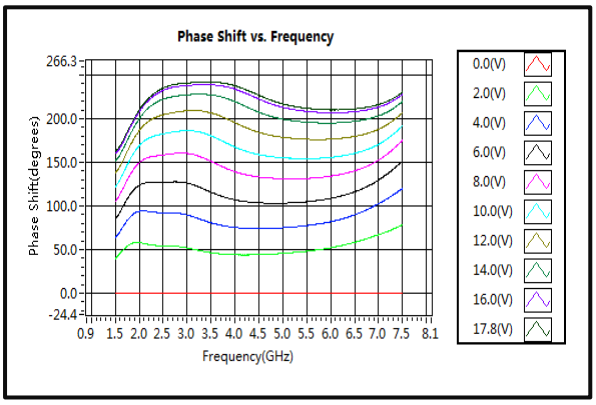

## Input VSWR vs. Voltage(S11)



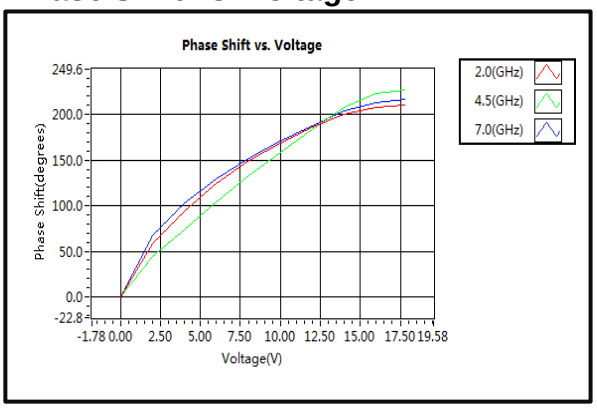

## Output VSWR vs. Voltage(S22)



## Phase Shift vs. Frequency




## Phase Shift vs. Voltage




## Normalized Attenuation vs. Frequency