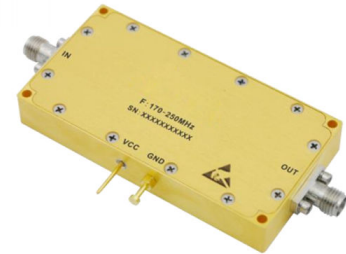




Voltage Control Phase Shifter 0.17-0.25GHz

Features

- Wide Band Operation 170-250MHz
- 360° Phase Shift
- Low Insertion Loss and Low Phase Error
- Single Control Operation
- Customization available upon request



| Parameters | Min | Typ. | Max | Units |
|--|----------------------------------|-------|-----|--------|
| Frequency Range | 0.17-0.25 | | | GHz |
| Phase Range | | 360 | | ° |
| Insertion Loss | | 2.5 | 4.0 | dB |
| Insertion Loss Temperature Coefficient | | 0.003 | | dB/ °C |
| Phase Flatness | | ±15 | | ° |
| Control Voltage | 0 | | 15 | V |
| Input Return Loss | | 20 | | dB |
| Output Return Loss | | 20 | | dB |
| Input Power for 1 dB Compression | | 20 | | dBm |
| IM3 | | 30 | | dBc |
| Weight | 1.98 | | | ounces |
| Impedance | | 50 | | Ω |
| current | | 5 | | mA |
| Input /Output Connectors | SMA-Female (Standard) | | | |
| Finish | Gold Plated | | | |
| Material | Brass | | | |
| Seal | Hermetically Sealed (optional) | | | |



Absolute Maximum Ratings

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

Environmental Specifications

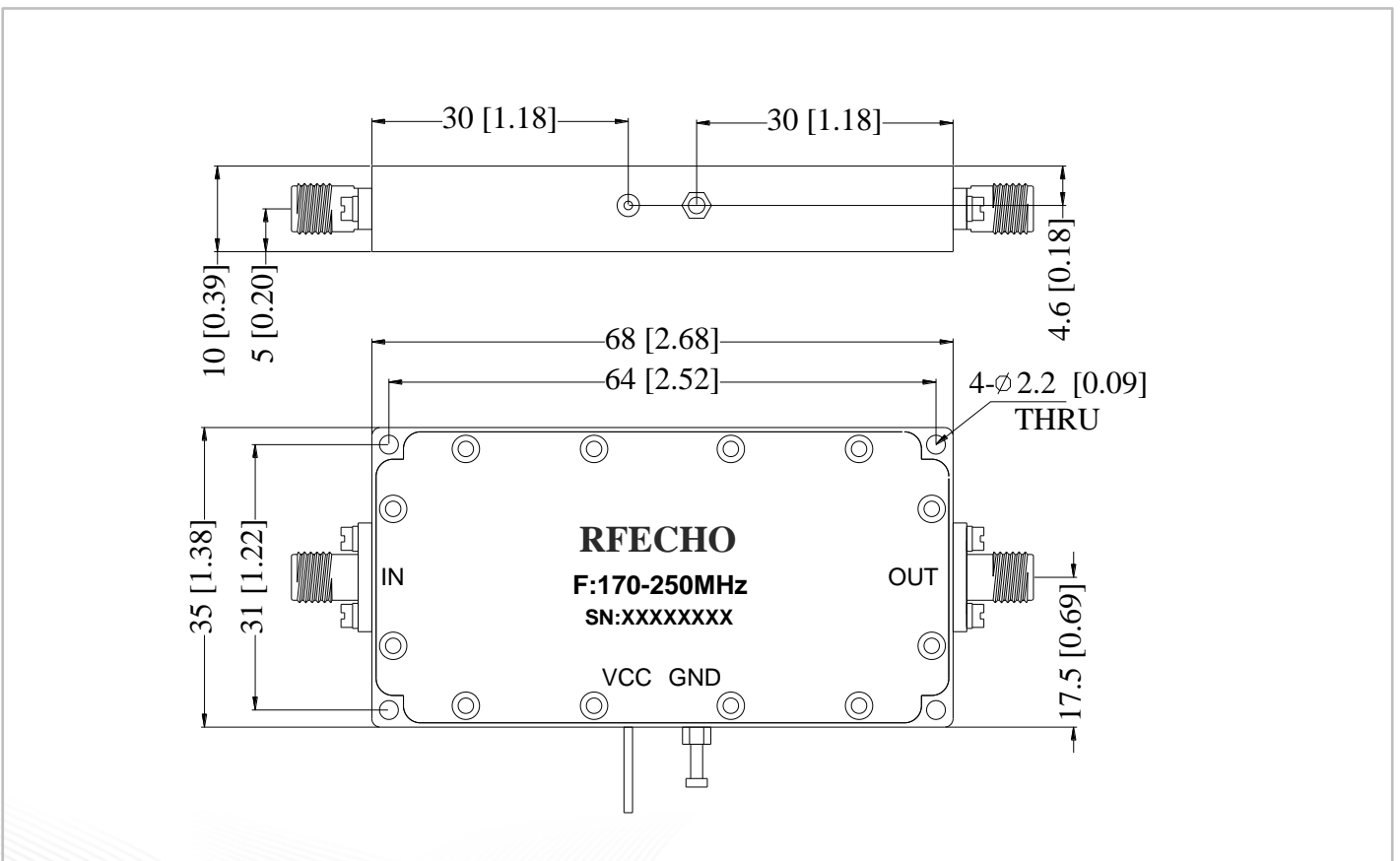
| | |
|-------------------------|--|
| Operational Temperature | -40°C~+85°C |
| Storage Temperature | -50°C~+105°C |
| Altitude | 30,000 ft. (Epoxy Sealed Controlled environment) |
| | 60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional) |
| Vibration | 25g RMS (15 degrees 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 |
|-----------------|------------------------------------|
| DBVCPS00170025A | 0.17-0.25GHz Voltage Phase Shifter |

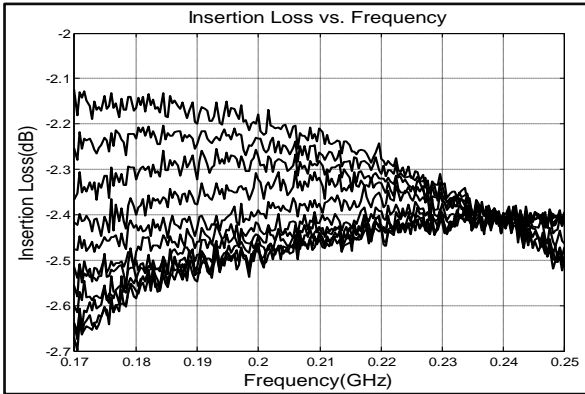
Outline Drawing:

All Dimensions in mm (inches)

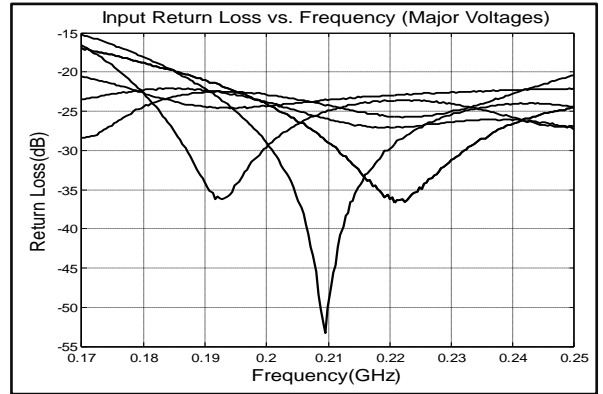




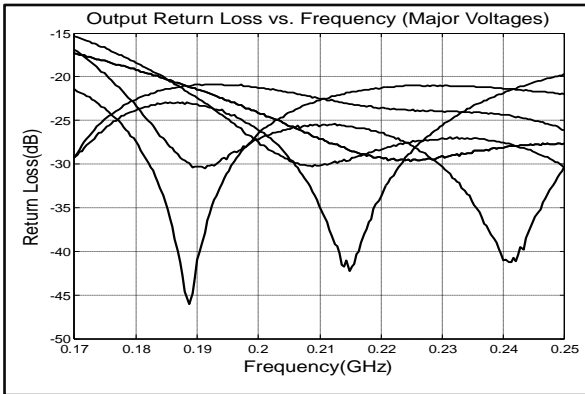
Insertion Loss vs. Frequency



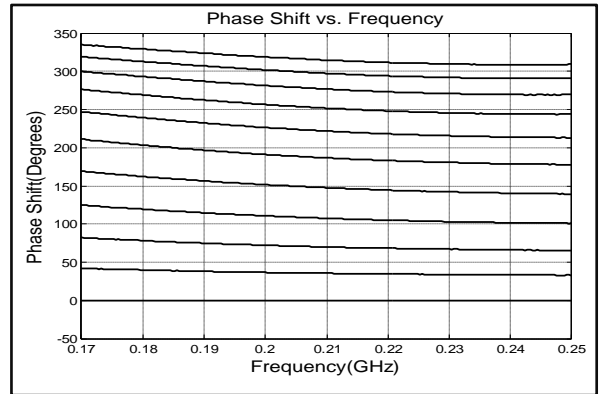
Input Return Loss vs. Frequency



Output Return Loss vs. Frequency



Phase Shift vs. Frequency



Phase Shift vs. Voltage

