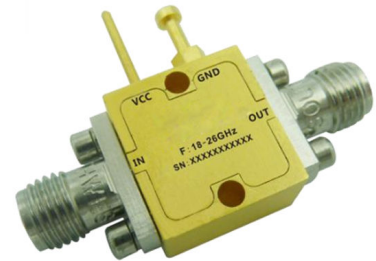




# Absorptive Voltage Control Attenuator 18-26GHz



## Features

- Wide Band Operation 18-26GHz
- Wide Attenuation Range 30dB
- Absorptive Topology
- Single Control Operation

| Parameter                              | Min.                           | Typ. | Max. | Units    |
|--|--------------------------------|------|------|----------|
| Frequency Range                        | 18~26                          |      |      | GHz      |
| Attenuation Range                      | 30                             |      |      | dB       |
| Insertion Loss                         |                                | 2.2  | 3.0  | dB       |
| Insertion Loss Temperature Coefficient |                                | 0.01 |      | dB/ °C   |
| Input VSWR @Insertion Loss state       |                                | 1.6  | 2.0  | : 1      |
| Output VSWR @Insertion Loss state      |                                | 1.6  | 2.0  | : 1      |
| 0.1dB Compression Point (P0.1dB)       |                                | 30   |      | dBm      |
| Input Ip3                              |                                | 43   |      | dBm      |
| Switching Speed                        |                                |      | 2.5  | us       |
| Control Voltage                        | 0                              | 10   |      | V        |
| Weight                                 | 0.4 Max.                       |      |      | ounces   |
| Impedance                              | 50                             |      |      | $\Omega$ |
| Current                                | 40 Max.                        |      |      | mA       |
| Input / Output Connectors              | SMA-Female                     |      |      |          |
| Finish                                 | Gold plated                    |      |      |          |
| Material                               | Aluminum                       |      |      |          |
| Sealing                                | Hermetically Sealed (Optional) |      |      |          |



### Absolute Maximum Ratings

|                 |        |
|-----------------|--------|
| Control Voltage | 0~ 13V |
| RF Input power  | +30dBm |

### Environmental Specifications

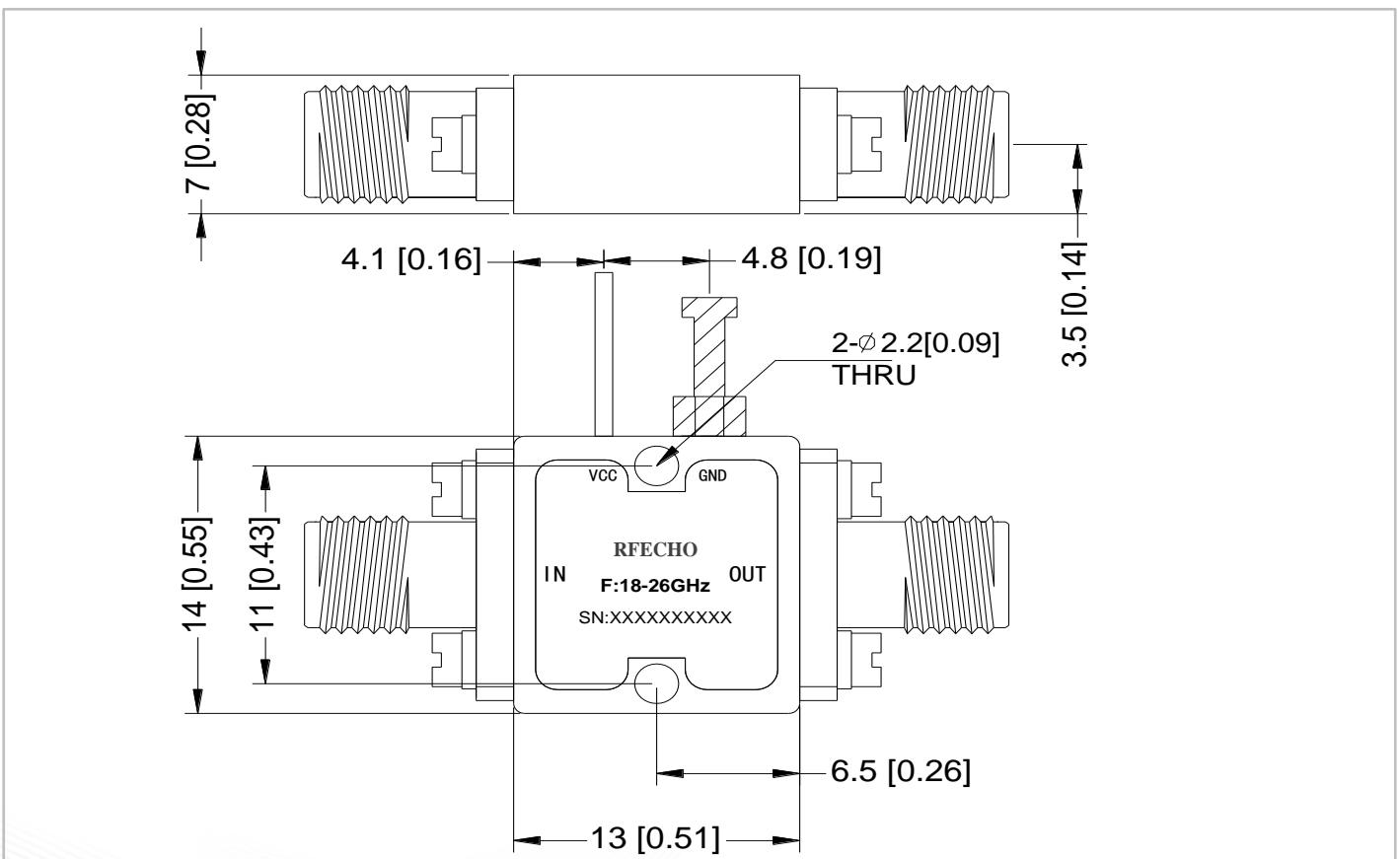
|                         |  |
|-------------------------|--|
| Operational Temperature | -40°C~+85°C  |
| Storage Temperature     | -50°C~+105°C   |
| Altitude                | 30,000 ft. (Epoxy Sealed Controlled environment)                                 |
|                         | 60,000 ft. 1.0psi 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                         |
|-----------------|-------------------------------------|
| DBVA3018002650B | 18-26GHz Voltage Control Attenuator |

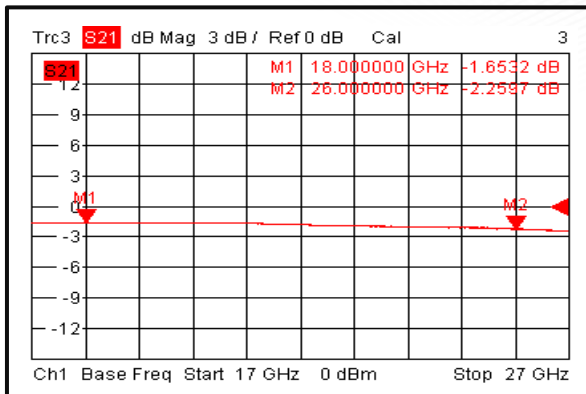
### Outline Drawing:

All Dimensions in mm (inches)

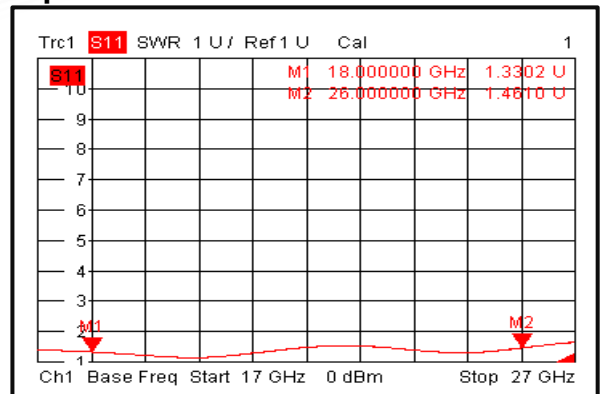




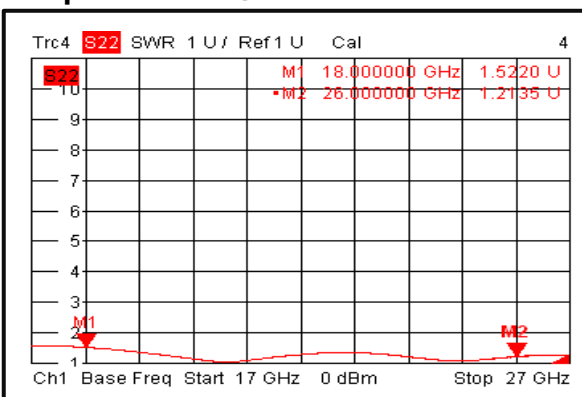
### Insertion Loss @+25°C



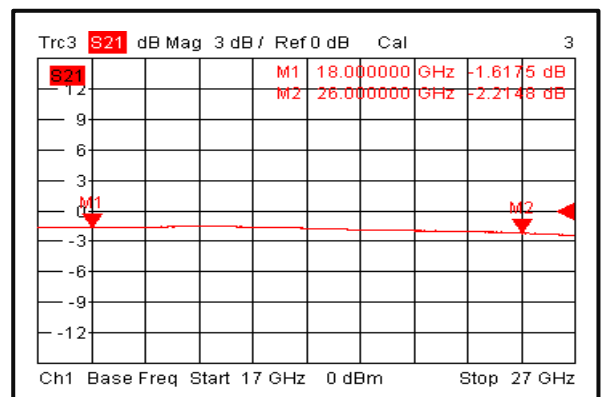
### Input VSWR @+25°C



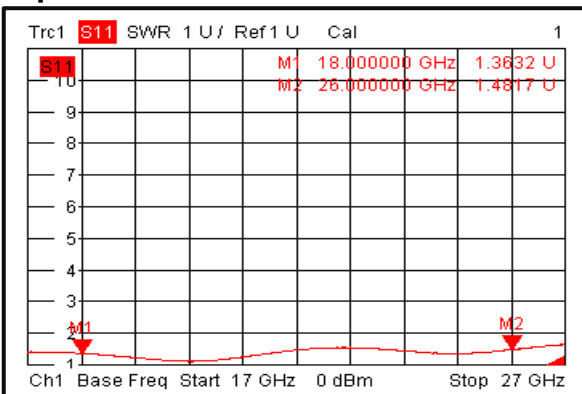
### Output VSWR @+25°C



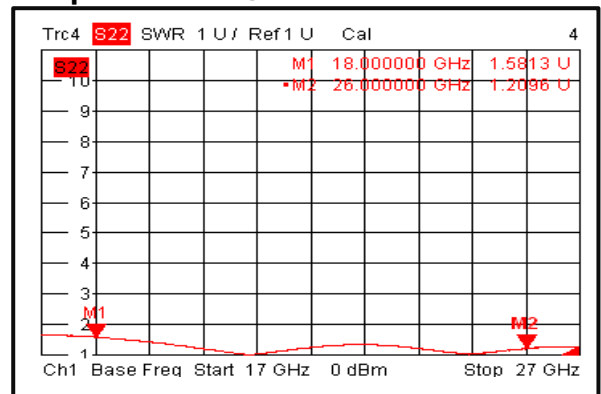
### Insertion Loss @-40°C



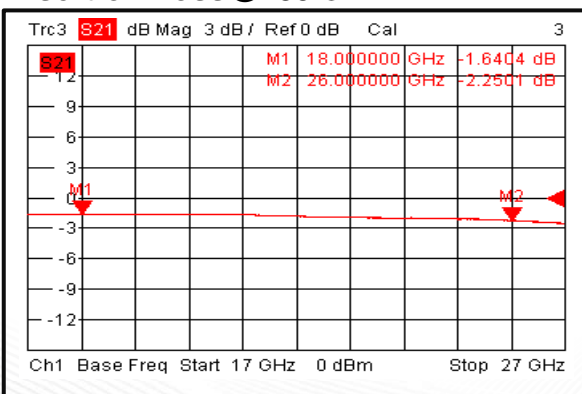
### Input VSWR @-40°C



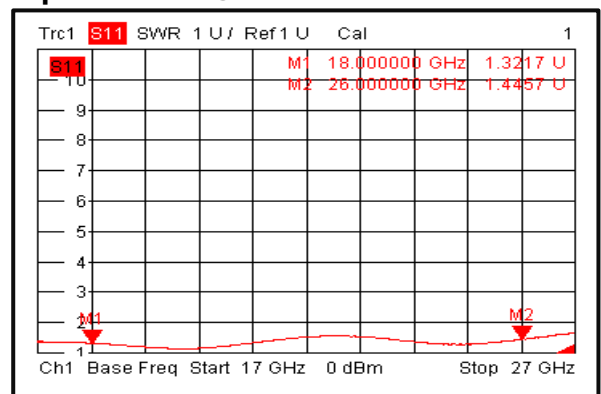
### Output VSWR @-40°C



### Insertion Loss @+85°C

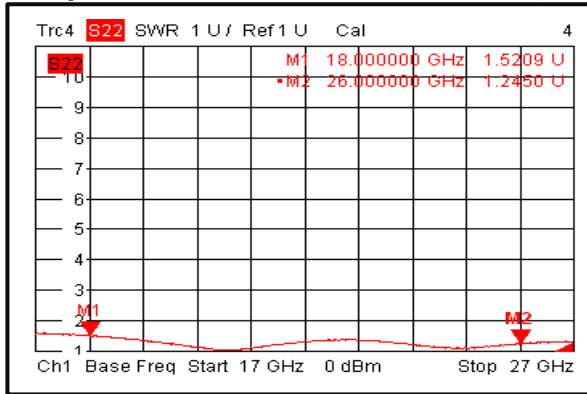


### Input VSWR @+85°C

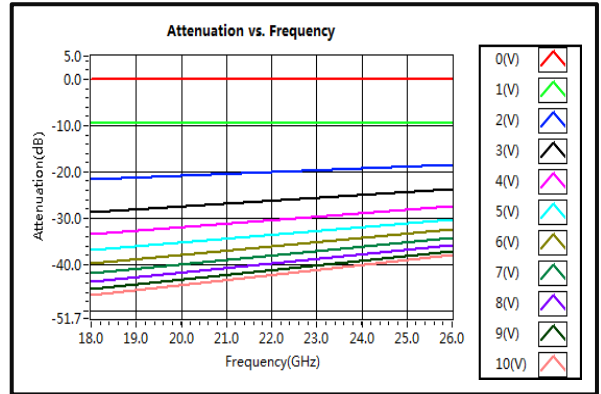




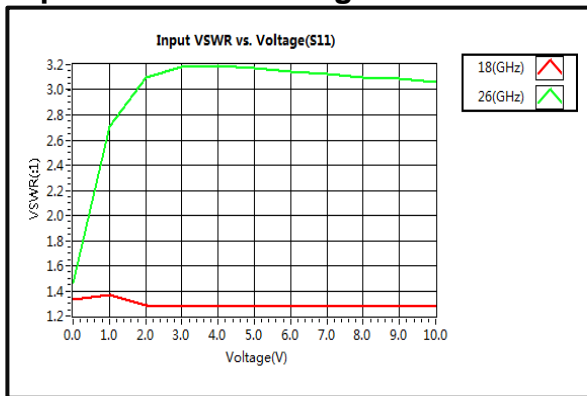
### Output VSWR @+85°C



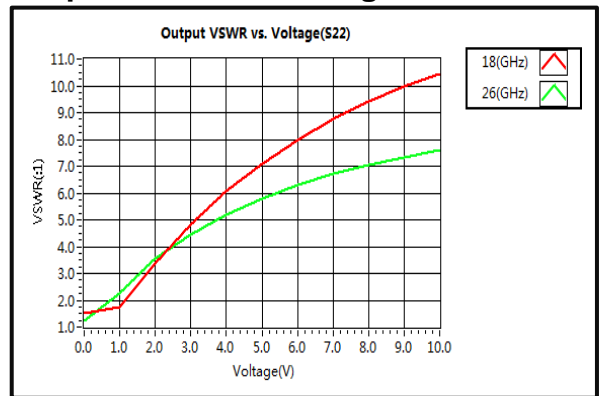
### Attenuation vs. Frequency



### Input VSWR vs. Voltage



### Output VSWR vs. Voltage



### Phase Shift vs. Frequency

