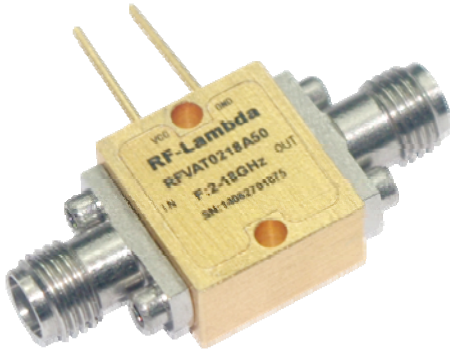




Absorptive Voltage Control Attenuator 2-18GHz



Features

- Wide Band Operation 2-18GHz
- Wide Attenuation Range 50dB
- Absorptive Topology
- Single Control Operation
- Customization available upon request

Absorptive Voltage Control Attenuator 2-18GHz

Electrical Specifications, TA = +25 °C

| Description | PN: RFVAT0218A50 | | | |
|--|----------------------------------|-------|------|--------|
| | Absorptive Voltage Attenuator | | | |
| Parameters | Min | Typ. | Max | Units |
| Frequency Range | 2 | | 18 | GHz |
| Attenuation Range | | 50 | | dB |
| Insertion Loss | | | 3.0 | dB/°C |
| Insertion Loss Temperature Coefficient | | 0.003 | | dB |
| Input VSWR | | | 2.0 | ratio |
| Output VSWR | | | 2.0 | ratio |
| Input Power for 1 dB Compression | | 30 | | dBm |
| IM3 | | / | | dBc |
| Switching Speed | | | 2500 | ns |
| Weight | 1 | | | ounces |
| Impedance | 50 | | | Ω |
| current | <30 | | | mA |
| Input /Output Connector | SMA-Female (Standard) | | | |
| Finishing | Gold plating | | | |
| Material | Brass | | | |
| Seal | Hermetically Sealed (optional) | | | |



Absolute Maximum Ratings

| | |
|---------------------------|------------|
| Control Voltage | DC ~ 10V |
| RF Input power | 30dBm |
| Storage Temperature(°C) | -45 ~ +85 |
| Operating Temperature(°C) | -50 ~ +125 |

Ordering Information

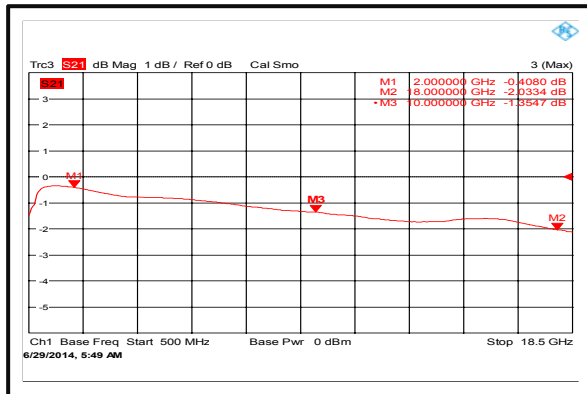
| Part No | ECCN | Description |
|--------------|-------|------------------------------------|
| RFVAT0218A50 | EAR99 | 2-18GHz Voltage Control Attenuator |

Environment specifications

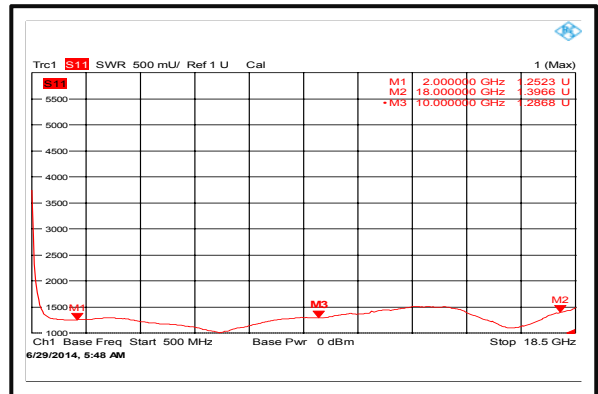
| | |
|------------------------------|---|
| Operational Temperature (°C) | -45 ~ +85 |
| Storage Temperature (°C) | -50 ~ +125 |
| Altitude | 30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional) |
| Vibration | 25g rms (15 degree 2KHz) endurance, 1 hour per axis |
| Humidity | 100% RH at 35c, 95%RH at 40 deg c |
| Shock | 20G for 11msc half sin wave,3 axis both directions |

Typical performance plots

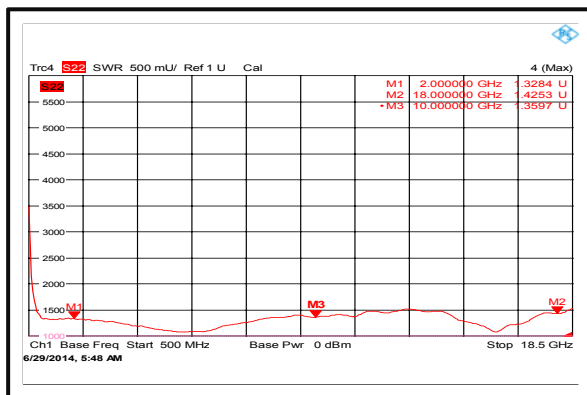
Insertion Loss



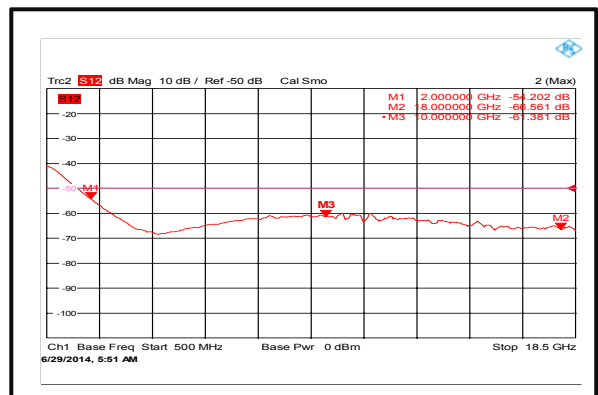
Input VSWR



Output VSWR



Isolation



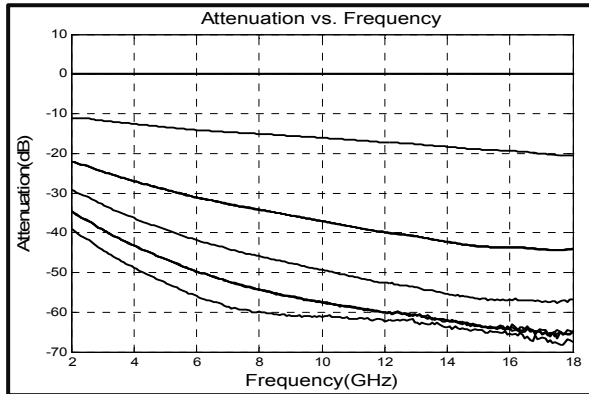


RF-LAMBDA

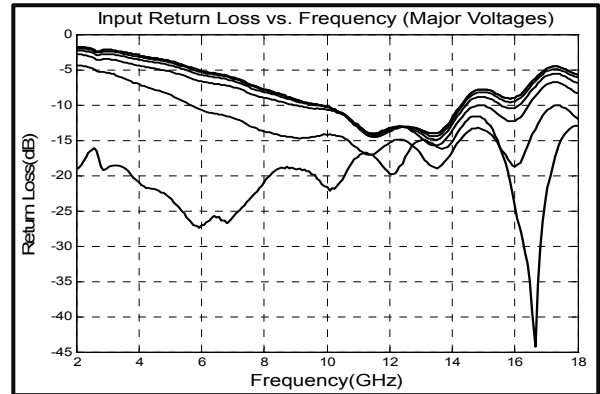
LEADER OF BROADBAND SOLUTIONS

RFVAT0218A50

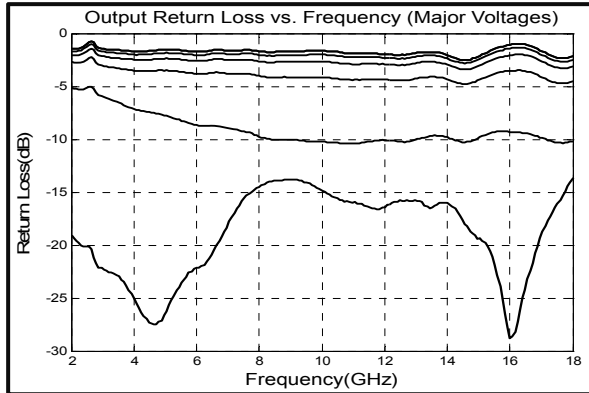
Attenuation vs. Frequency



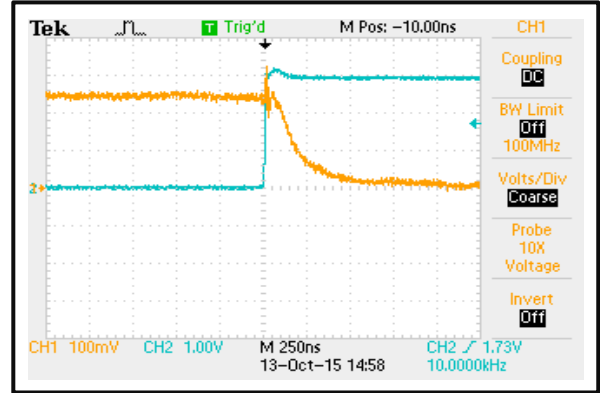
Input Return Loss vs. Frequency



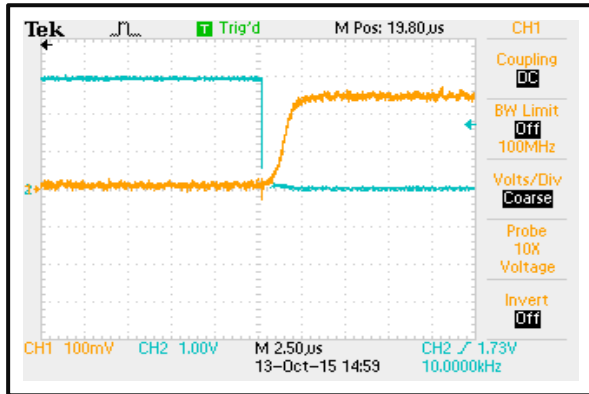
Output Return Loss vs. Frequency



Switching Speed



Switching Speed



Absorptive Voltage Control Attenuator 2-18GHz



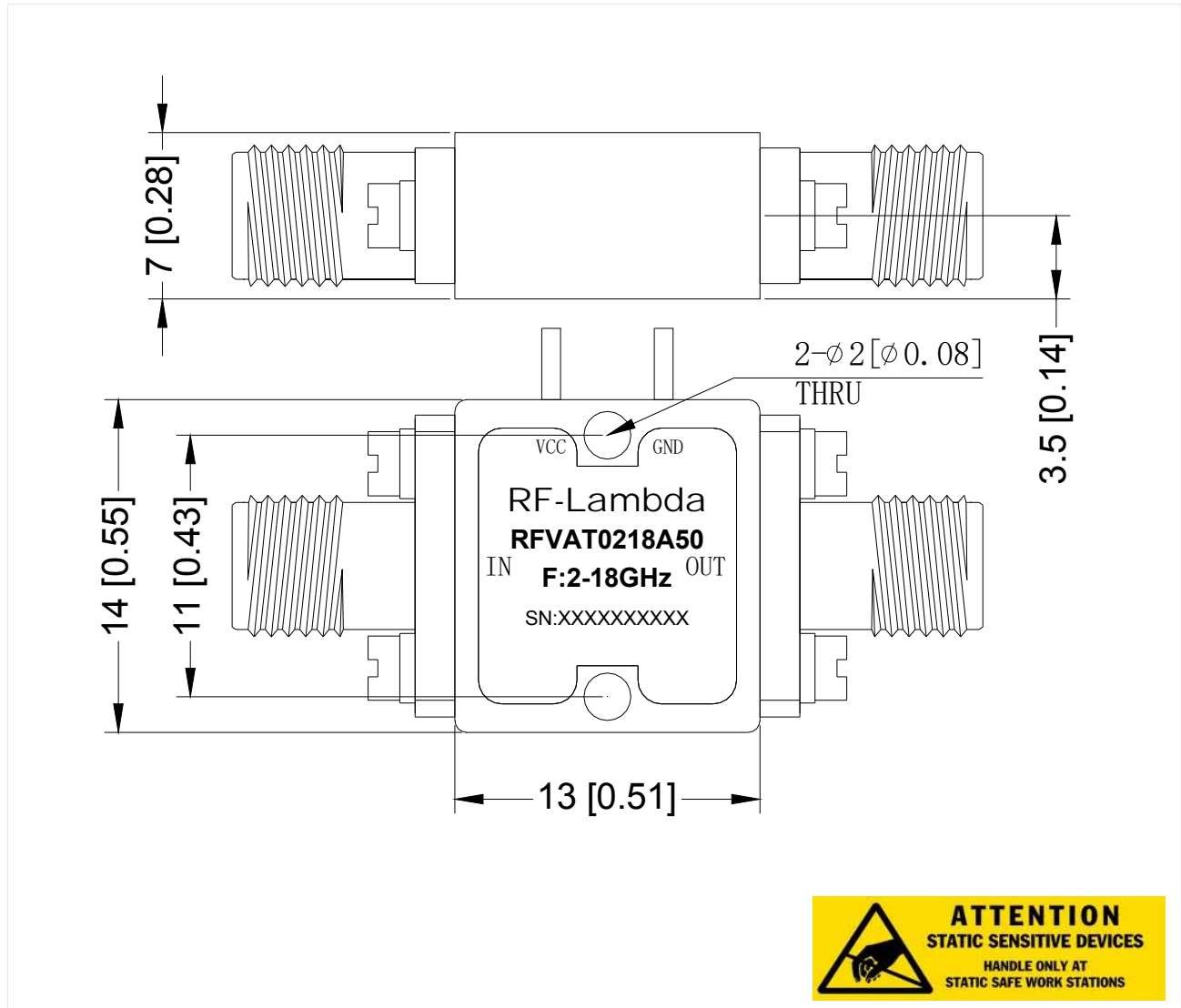
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RFVAT0218A50

Outline Drawing:

All Dimensions in mm (inches)



Absorptive Voltage Control Attenuator 2-18GHz

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