



## Voltage Control Attenuator 2-4GHz 30dB



### Features

Wide Band Operation 2-4GHz  
30dB Attenuation Range  
DC-10V Biasing Adjustment Range  
Low Supply Current 5mA Typical  
High 1dB Compression Point >+30dBm  
Linear in dB Control Characteristic  
Customization available upon request

RF-Lambda's Voltage Controlled Attenuators provide a broadband range of operation available in 3V, 5V or 10V versions. Our attenuators offer high-linearity suitable for wireless, CATV infrastructure applications.

| Input Port Absorptive Voltage Control Attenuator |                   |      |      |            |               |          |                 |
|--------------------------------------------------|-------------------|------|------|------------|---------------|----------|-----------------|
| Frequency (GHz)                                  | Insert. Loss (dB) | VSWR | VSWR | Atten (dB) | Flatness (dB) | P1dB (W) | Biasing Voltage |
| 2-4                                              | 1.4               | 1.5  | 1.5  | 30         | $\pm 1$       | 1        | DC-10V<br><10mA |

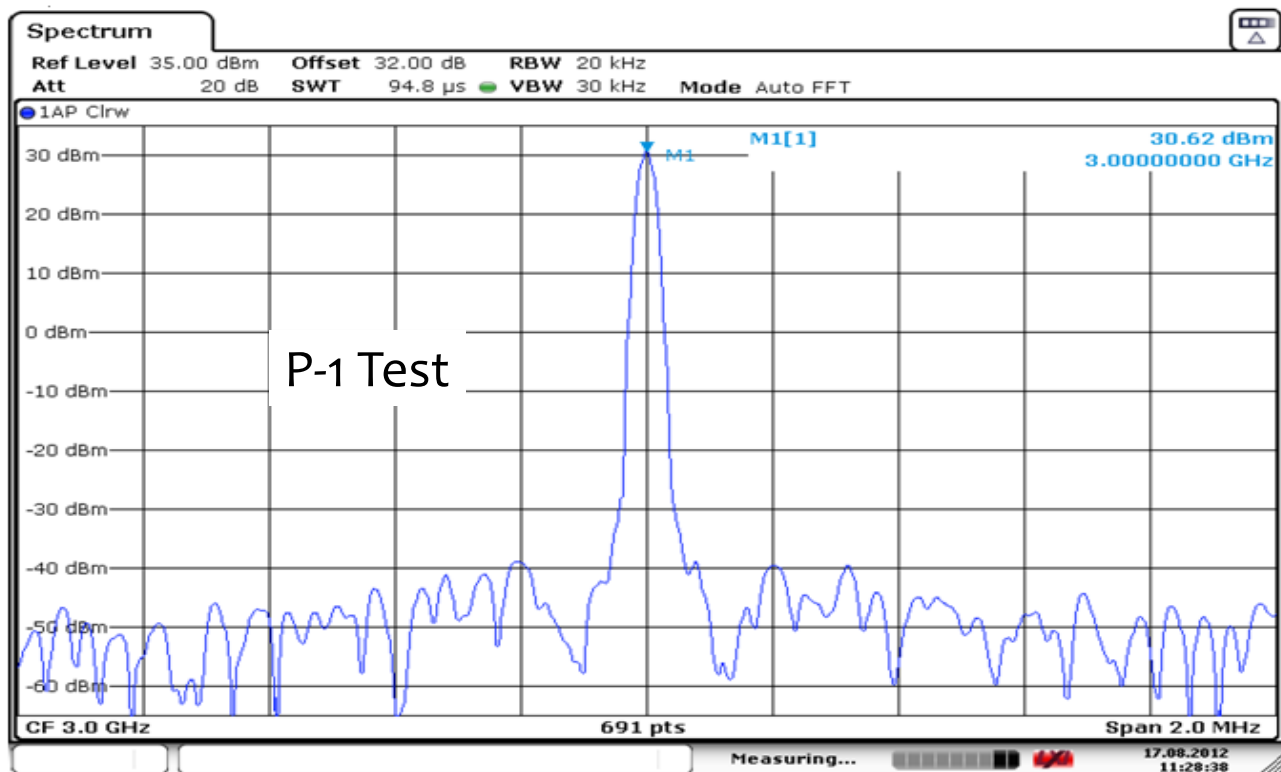
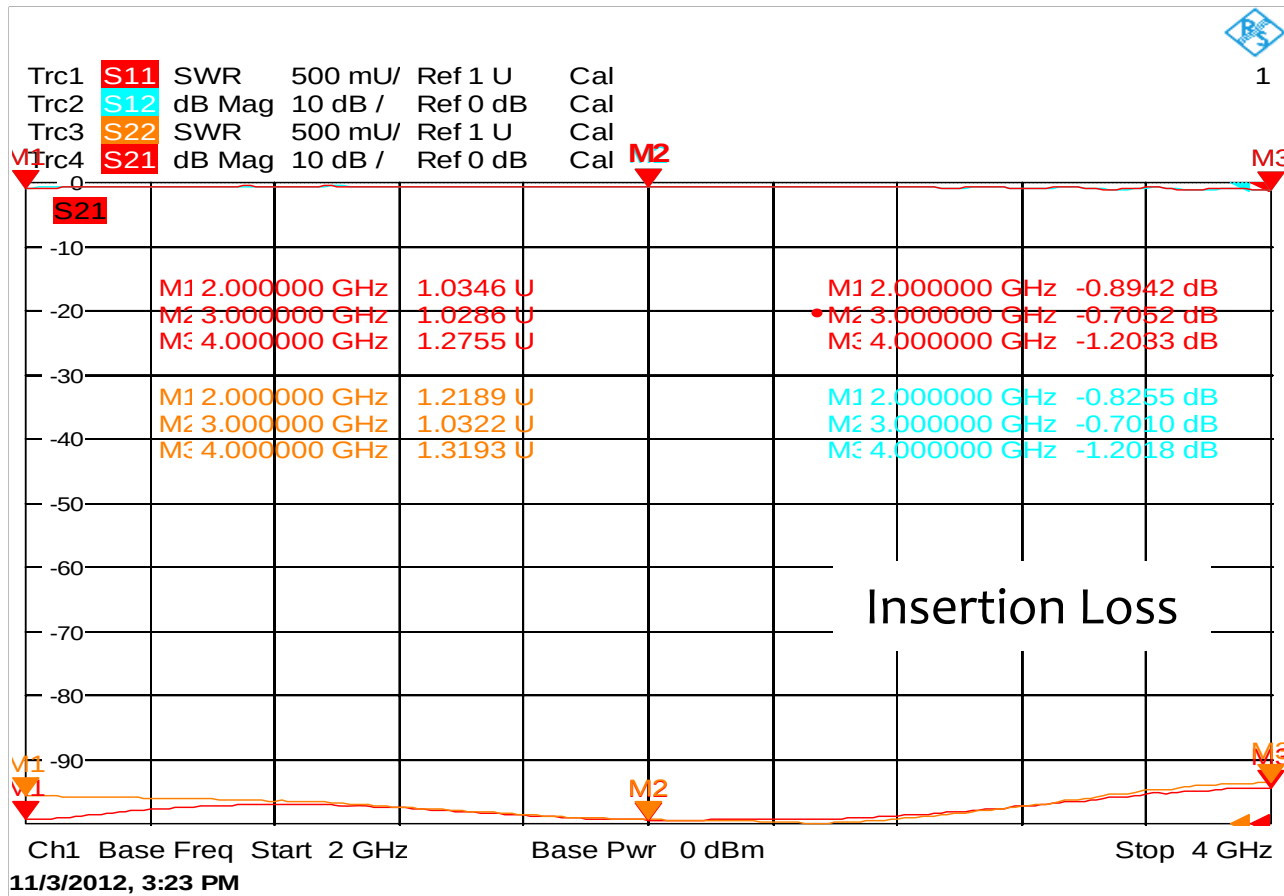
| Absolute Maximum Ratings |            |
|--------------------------|------------|
| Control Voltage          | DC-10V     |
| Input RF power           | 33dBm      |
| Storage Temperature (C°) | -50 ~ +125 |

### Mechanical Specification

Case Style: As shown  
Finishing: Gold plating brass  
Other finishing available  
Connector: SMA-F Per MIL-C-39012  
Seal: Hermetically Sealed  
Control PIN: 0.02" dia x 0.15" solder pins  
Weight: 40 grams max.

| Environment specifications   |                                    |
|------------------------------|------------------------------------|
| Operational Temperature (C°) | -45 ~ +85                          |
| Storage Temperature (C°)     | -50 ~ +125                         |
| Altitude                     | 30,000 ft (Controlled environment) |
| Vibration                    | 10g rms (15 degree 2KHz)           |
| Humidity                     | 100% RH at 35c, 95%RH at 40 deg c  |
| Shock                        | 20G for 11msc                      |

| Ordering Information |       |                                   |
|----------------------|-------|-----------------------------------|
| Part No              | ECCN  | Description                       |
| RFVAT0204A30         | EAR99 | 2-4GHz Voltage Control Attenuator |





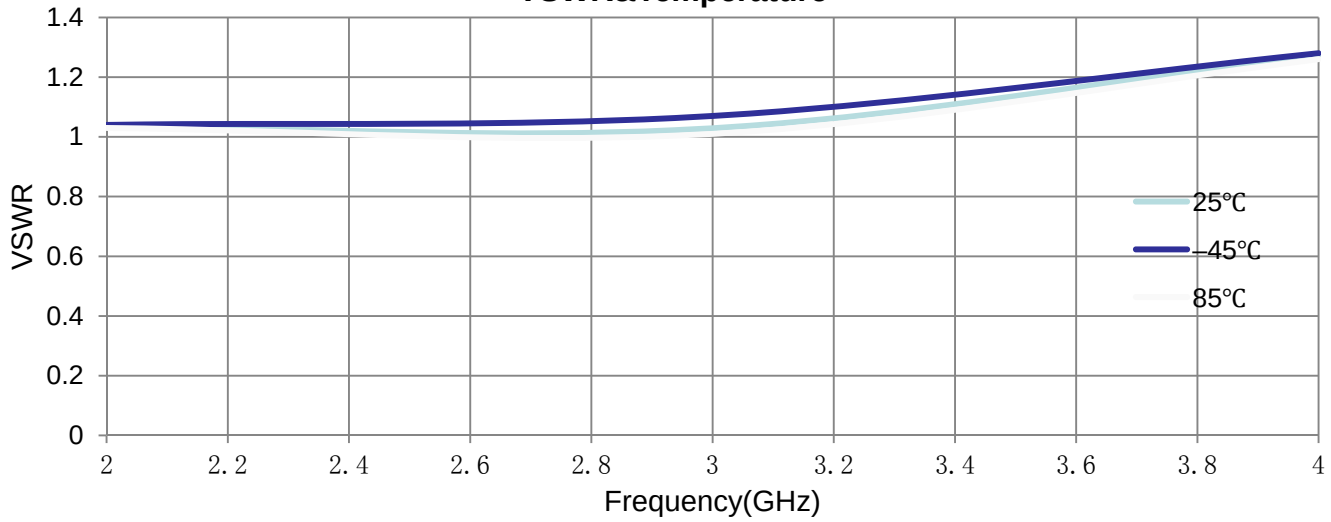
# RF-LAMBDA

The power beyond expectations

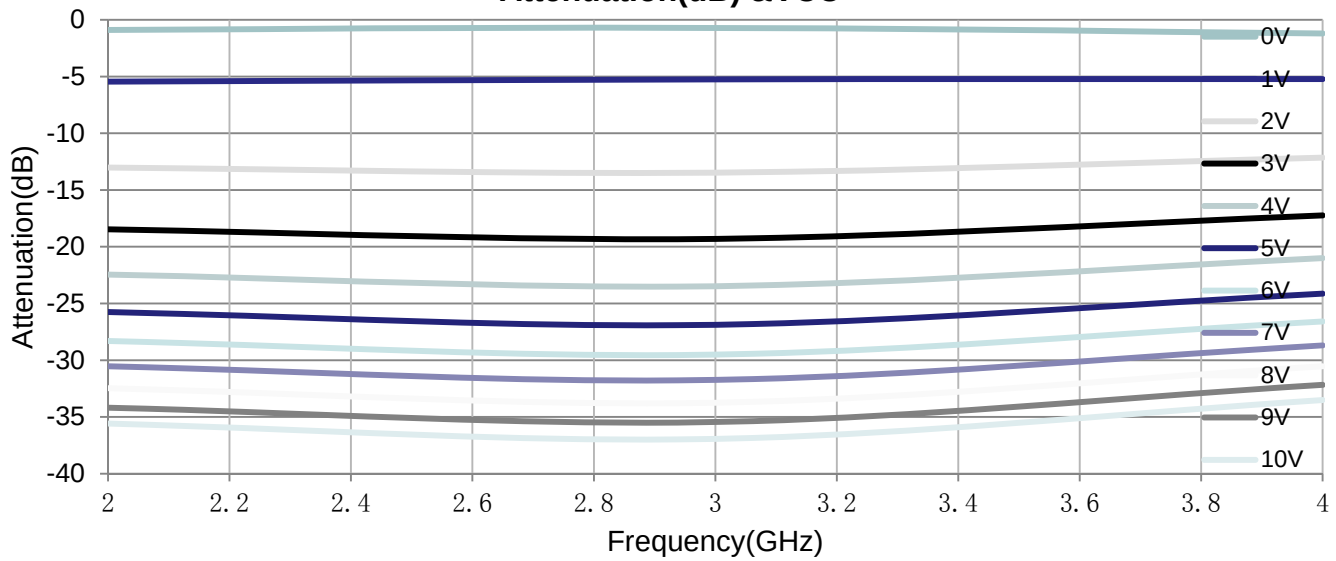
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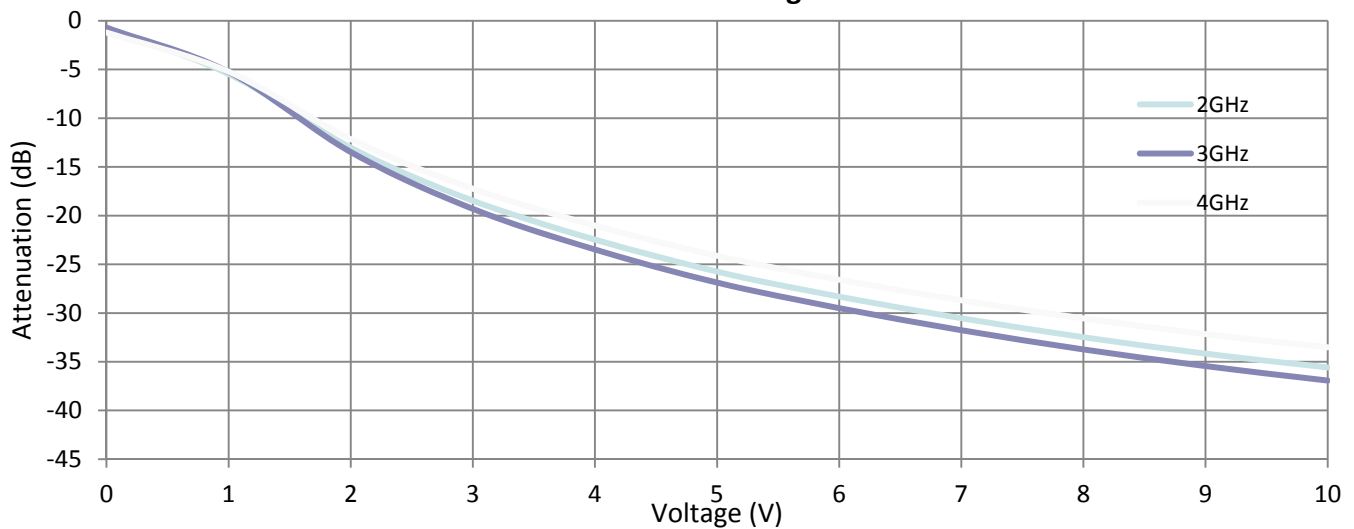
### VSWR&Temperature



### Attenuation(dB) & VCC



### Attenuation vs. Voltage





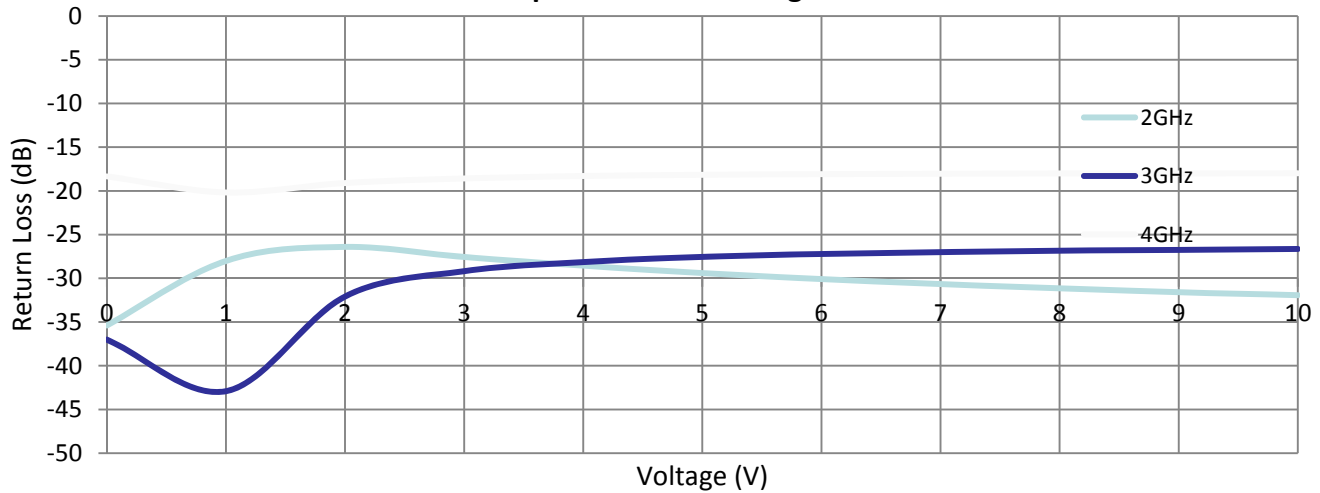
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The power beyond expectations

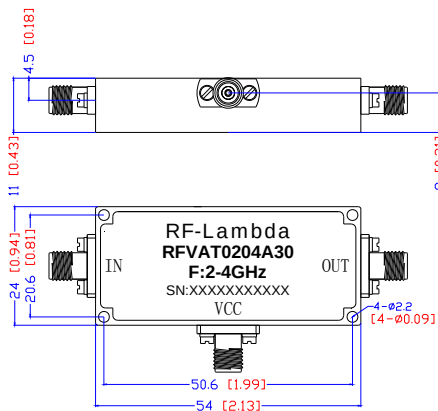
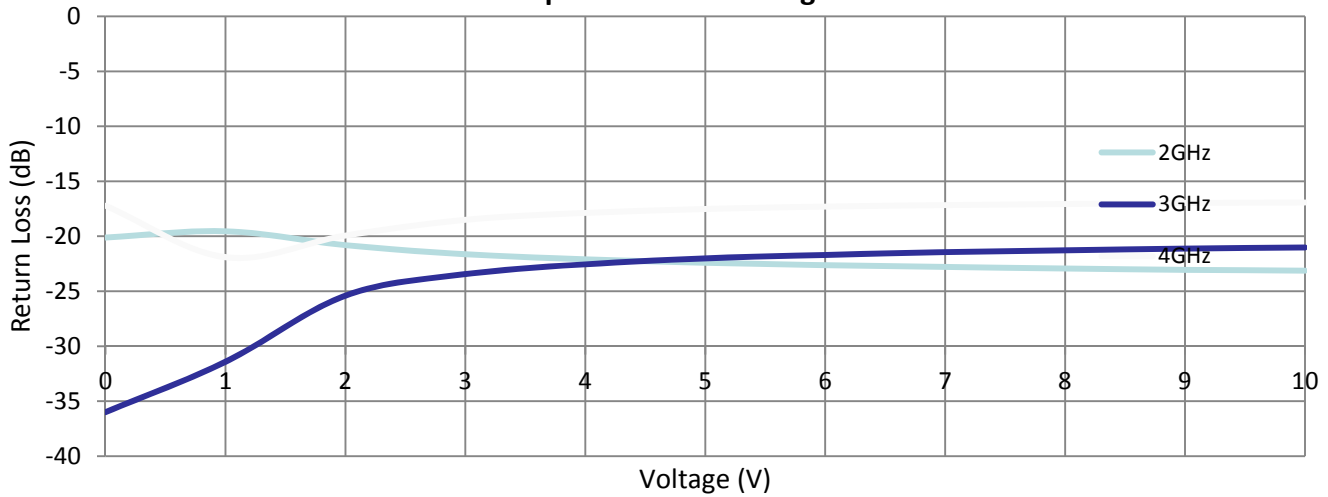
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Input VSWR Vs. Voltage



Output VSWR Vs. Voltage



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