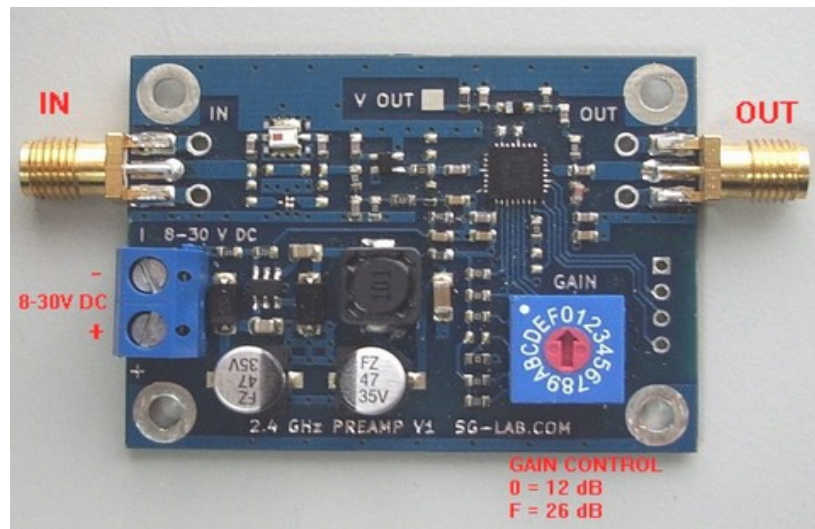


SG LAB

2.4 GHz Variable gain amplifier V1



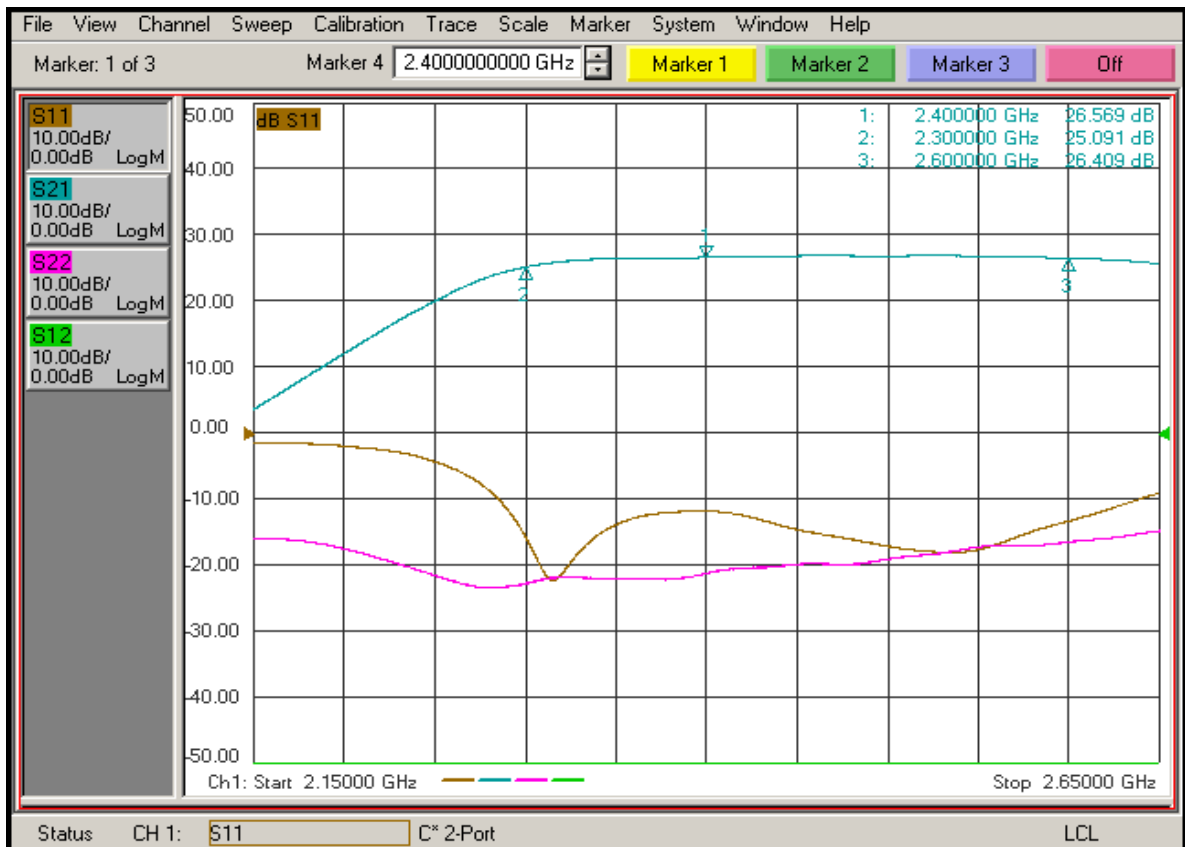
Specifications

| | Min. | Typ. | Max. |
|------------------------------|---------|-----------------|---------|
| Frequency range RF | 2.3 GHz | 2.4 GHz | 2.6 GHz |
| Power Gain | 11 dB | | 26 dB |
| Gain Control | | 15 dB | |
| Gain step | | 1 dB | |
| Power supply voltage | 8V | 12V | 30V |
| Current consumption | 110 mA | 80 mA | 45mA |
| Recommended input power | -20dBm | | 0 dBm |
| Output power P1dB | | +18 dBm (63 mW) | |
| Maximum input power | | | +10 dBm |
| Dimensions without SMA conn. | | 53x39x13mm | |

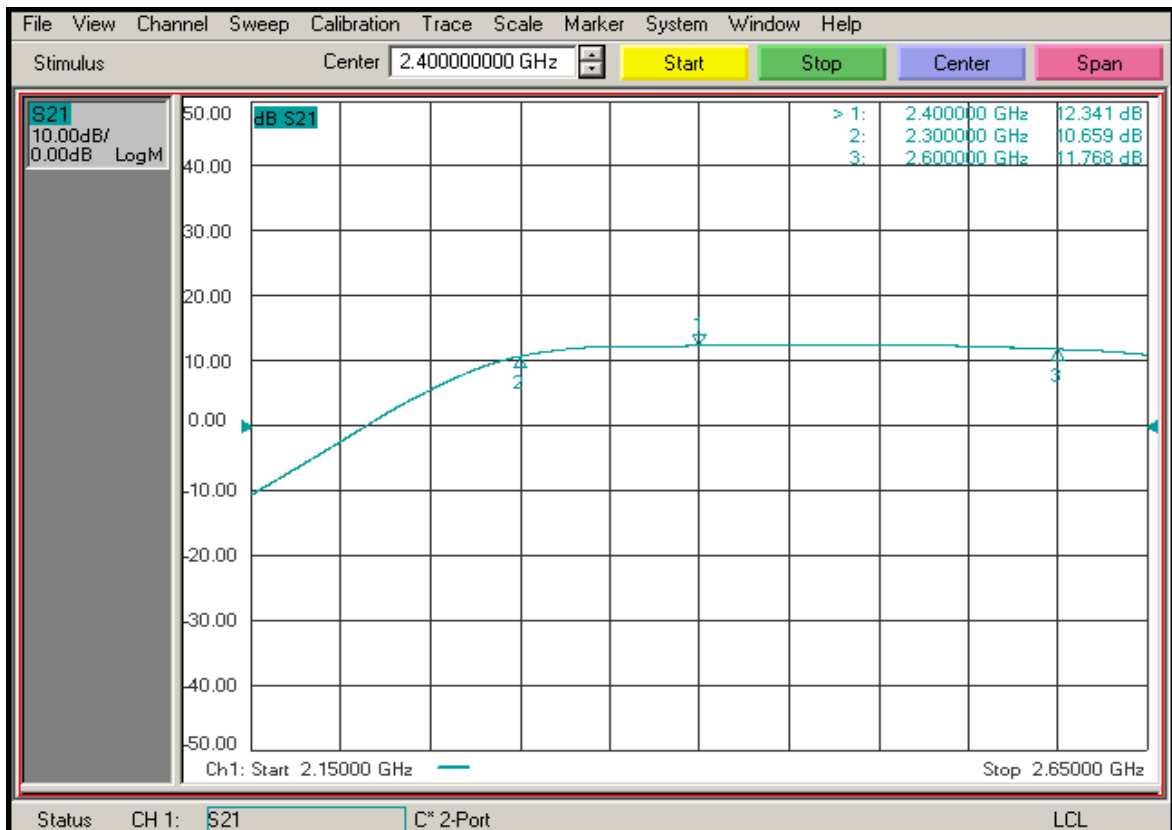
Features

- Variable Gain Amplifier with 15dB**
- Gain control 1 dB step**
- Additional filtering for 2.4 GHz band**
- 8-30 V DC power supply**
- Output detector**

Gain at 2.4 GHz, encoder set to F



Gain at 2.4 GHz, encoder set to 1



Wideband Gain 500-3000 MHz , encoder set to F



VOUT vs. Output power:

| POWER | VOUT |
|-------|--------|
| 5 mW | 115 mV |
| 10 mW | 180 mV |
| 20 mW | 285 mV |
| 30 mW | 360 mV |
| 40 mW | 400 mV |
| 50 mW | 480 mV |
| 60 mW | 580 mV |
| 70 mW | 715 mV |