



DS INSTRUMENTS

VARIABLE LOW-POWER AMPLIFIER



Description

New upgraded REV 7 version for Summer 2021 now shipping!

The wideband **GB6000L** provides a convenient and inexpensive way to amplify signals from 10-6000MHz for many different projects and applications. USB power and digital gain control makes this device much faster to integrate, and more flexible than traditional lab-powered devices. Gain can be set from the user control buttons on the front panel, USB COM port, or from device memory. Wideband frequency range covers 10-6000MHz in a single model!

Wideband GB6000L Gain Block Features:

- Frequency Range: 10MHz – **6GHz**
- Amplifier Gain (Max setting): **+28dB** Typical
- Amplifier Gain (Min setting): 0dB Typical
- p1dB: **+22dBm**
- Noise Figure: 4dB
- IP3: 34dBm
- Connectors: 18GHz Microwave Gold SMA
- Gain step size: 0.5dB
- Return Loss: > 12dB
- Excellent gain flatness
- 50 Ohm matched (SMA)
- Standard USB-C 5v power input
- Gain control buttons
- Dimensions: 2.75" x 1.25" x 2.15"

6000MHz Gain Block Applications

- Automated testing environments
- General RF lab use
- Production verification
- Educational / university lab use
- Aerospace / defense research
- Wireless infrastructure
- Antenna research
- Communication link design

Typical Small Signal Gain (max setting):

