

30GHZ VARIABLE-GAIN AMPLIFIER



Description

Our latest high-frequency smart amplifier for 2021!

The wideband **GB30000** provides a compact and affordable way to amplify signals from 20-30GHz for a variety of Ka and K-band applications. Simple USB-C power input and control makes this device much faster to integrate, and more flexible than traditional multi-voltage lab-supply powered devices. All negative voltage generation, gate control biasing, current limiting, temperature monitoring, and voltage detection are done internally automatically.

K-Band Variable-Gain Amplifier Specifications:

- Frequency Range: 20 30GHz
- Amplifier Max Gain Setting: +25dB typical
- Gain Control Step Size: 0.5dB
- Gain Control Range: 30dB
- p1dB: +21dBm
- Saturated Power: +23dBm
- Max input power: +10dBm
- IP3: +33dBm
- Noise Figure: 5dB
- Return Loss: ~6dB typical
- USB Current Requirement: < 0.75A

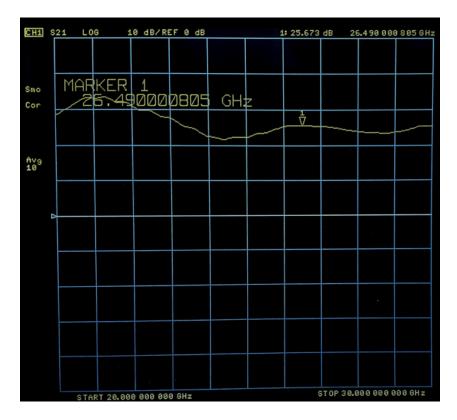
30GHz Amplifier Feature List:

- Front gain control buttons
- Precision 2.92mm RF input and output ports
- Standard USB-C 5VDC power input
- Compact aluminum enclosure
- Status LEDs and audible alerts
- Temperature, voltage, current monitoring
- USB control

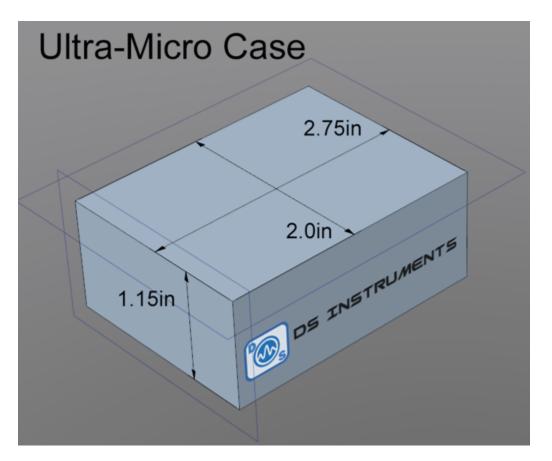
GB30000 Applications

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

Small Signal Gain (Max Setting):



Compact Enclosure:



Free PC Control Software:

🔜 DS Instruments		– 🗆 X
CB6000	Search COM138 PA6000L - FirmwareV4.25	<u>DS Instruments</u>
Por s	Help! PA-R3	Save Name Send Command
Amp Control	AMP ON AMP OFF	
dB	20.25	++dB
PA-R3 OFE 22.0		

40GHz Rated 2.92mm Connectors:

