



New Broadband Gain Blocks from Avago Technologies Deliver High Linearity and Low Current Consumption via InGaP HBT Technology

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Easy-to-Use Devices in Industry-Standard SOT-89 Packages Operate from DC to 6000 MHz; Ideal for Wide Array of Wireless Communications Infrastructure Applications

SAN JOSE, Calif. & SINGAPORE, Nov 18, 2010 (BUSINESS WIRE) --

Avago Technologies (Nasdaq:[AVGO](#)), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced two new high-linearity gain block amplifiers. The [AVT-55689](#) and [AVT-54689](#) gain blocks feature low current consumption and robust electrostatic discharge (ESD) protection, and are housed in an industry standard SOT-89 package. The new devices operate in frequency bands from DC to 6000 MHz. Their ease of use and extended broadband performance make them ideal for cellular and WiMAX wireless base stations, satellite and cable TV set-top boxes, military equipment and a variety of other wireless applications operating in this broad frequency range.

The AVT-55689 and AVT-54689 gain blocks leverage Indium Gallium Phosphate (InGaP) Hetero-junction Bipolar Transistor (HBT) process to achieve state-of-the-art reliability, temperature stability and performance consistency. The devices are each internally matched to 50 ohms, eliminating the need for additional radio frequency (RF) matching components. The cost-efficient devices' broadband gain is also ideal for cellular infrastructure designs that require the same driver amplifier or gain block for different frequencies.

AVT-55689 and AVT-54689 Performance

At the typical operating condition of 5V and 83 mA, the AVT-55689 device delivers performance of 17.2 dB Gain, 33.0 dBm Output Third Order Intercept Point (OIP3), 19.4 dBm Output Power at 1 dB Gain Compression (P1dB) and 4.4 dB noise figure at 2000MHz.

At the typical operating condition of 5V and 60 mA, AVT-54689 delivers performance of 17.4 dB Gain, 30.0 dBm OIP3, 17.7 dBm P1dB and 4.0 dB noise figure at 2000 MHz.

Additional AVT-55689 and AVT-54689 Product Features

- Input and output fully matched to 50 ohms
- Built-in temperature compensated internal bias circuitry
- Excellent uniformity in product specifications to minimize yield impact
- RoHS-Compliant and MSL-1 rated package: lead and halogen free

U.S. Pricing and Availability

The AVT-55689 and AVT-54689 gain block amplifiers are priced starting from \$0.63 and \$0.59, respectively, in 10,000 unit volumes. Samples and production quantities are available now through the Avago direct sales channel and via worldwide distribution partners.

About Avago Technologies

Avago Technologies is a leading supplier of analog interface components for communications, industrial and consumer applications. By leveraging its core competencies in III-V compound and silicon semiconductor design and processing, the company provides an extensive range of analog, mixed signal and optoelectronics components and subsystems to approximately 40,000 end customers. Backed by strong customer service support, the company's products serve four diverse end markets: wireless communications, wired infrastructure, industrial and automotive electronics, and consumer and computing peripherals. Avago has a global employee presence and heritage of technical innovation dating back nearly 50 years to its Hewlett-Packard roots. Information about Avago is available on the Web at www.avagotech.com.

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