Avago Technologies Announces New High Performance Broad Band InGaP HBT Gain Blocks

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Economical, Easy to Use InGaP HBT Gain Block Amplifiers Ideal for WiMAX, Wireless Base Stations, Satellite TV, and Set-Top Boxes

SAN JOSE, Calif. & SINGAPORE, Mar 02, 2010 (BUSINESS WIRE) -- Avago Technologies (Nasdaq: AVGO), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced two new economical, easy to use general purpose InGaP Hetero-Junction Bipolar Transistor (HBT) MMIC gain block amplifiers for use in a variety of wireless applications. Avago's AVT-51663/53663 gain blocks, which operate within the DC to 6000MHz frequency band, can be used as either a broadband gain block or driver amplifier. These gain blocks target designers of cellular infrastructure applications, but can be also be used in a variety of other wireless applications such as Base Stations, WiMAX, WLAN, CATV, Satellite TV and set-top boxes.

Avago's AVT-51663/53663 gain block amplifiers, which are internally matched to 50-Ohms, were designed in Darlington configuration housed in an industry standard six-lead SOT-363 surface mount plastic package. The Darlington feedback structure provides inherent broad bandwidth performance resulting in a useful operating frequency range of up to 6 GHz making the AVT-51663/53663 ideal for small-signal gain cascades or IF amplification. Moreover, these new gain blocks feature easy installation and only require DC blocking capacitors, RF choke, biasing resistors and bypass capacitors for operation. Additionally, no additional RF matching components are required to achieve broadband performance.

These new gain block amplifiers were developed using advanced InGaP HBT technology that offers state-of-the-art reliability, temperature stability and consistent performance. At a typical operating condition of 5V and 37mA, the AVT-51663 delivers performance of 19.0dB gain, 24dBm Output Third Order Intercept Point (OIP3) and 12.5dBm Output Power at 1dB Gain Compression (P1dBm) and 3.2dBm noise figure at 2000MHz. The AVT-53663 operates at 5V and 48mA to deliver a performance of 19.5dB Gain, 5dBm OIP3, 15dBm P1dB and 3.2dB noise figure at 2000MHz.

Key Features

- Small signal gain amplifier
- 50 Ohm input and output
- Broadband high linearity
- No RF matching components required
- Flat broadband frequency response up to 2GHz
- Single, fixed 5V supply
- Industry standard SOT-363 package
- Lead-free and RoHS compliant

Pricing and Availability

Avago's AVT-51663 and AVT-53663 broadband high linearity gain blocks are available now with pricing starting from $0.31 and $0.33, respectively in 10,000 unit volumes. More information about Avago Technologies' wireless products can be found at: www.avagotechwireless.com.

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 40 years to its Hewlett-Packard roots. Information about Avago is available on the Web at www.avagotech.com

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Safe Harbor Statement

This announcement and supporting materials may contain forward-looking statements which address our expected future business and financial performance. These forward looking statements are based on current expectations, estimates, forecasts and projections of future Company or industry performance based on management's judgment, beliefs, current trends and market conditions, and involve risks and uncertainties that may cause actual results to differ materially from those contained in the forward-looking statements. Accordingly, we caution you not to place undue reliance on these statements. Avago Technologies Annual Report on Form 10-K filed with the SEC on December 15, 2009 and other filings with the U.S. Securities and Exchange Commission ("SEC") (which you may obtain for free at the SECs website at http://www.sec.gov) discuss some of the important risk factors that may affect our business, results of operations, and financial condition.

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