Avago Technologies Adds Three New High Linearity Gain Blocks for Use in a Variety of Wireless Infrastructure Apps

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Latest Additions to Broadband MMIC Device Series Ideal for Use in Applications Operating in Frequencies From 40 to 6000MHz

SAN JOSE, Calif. & SINGAPORE, Dec 14, 2009 (BUSINESS WIRE) -- Avago Technologies (Nasdaq:AVGO), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced the addition of three new innovative flat gain, high linearity low noise, gain blocks that can be used as a broadband gain block or radio frequency (RF) driver amplifier MMIC. Housed in an industry standard SOT-89 package measuring 4.5mm by 4.1mm by 1.5 mm, Avago's MGA-30x89 series now covers frequency bands from 40 to 6000MHz and only requires a simple DC biasing match. Moreover, no additional RF matching components are required to achieve wide bandwidth performance.

The ease-of-use and extended broadband performance of Avago's MGA-30x89 series makes these gain blocks an ideal choice for designers of cellular devices, WiMAX wireless base stations, satellite and cable TV set-top boxes, and a variety of other wireless applications that operate within the 40 to 6000MHz frequency range. The flat gain and high linearity features of these devices are achieved through the use of Avago's proprietary 0.25 um GaAs enhancement-mode pHEMT process. The built-in temperature compensated internal bias circuit also provides stable current over temperature and process threshold voltage variations. Additionally, the broadband flat gain feature is also ideal for use in other cellular infrastructure designs that require the same driver amplifier or gain block for different frequencies.

Key Features

- High linearity broadband performance
- Built in temperature compensated internal bias circuitry
- No RF matching components required
- GaAs E-pHEMT technology
- Single, fixed 5V supply
- Excellent uniformity in product specifications
- MSL-1: lead and halogen free
- High MTTF for base station applications

Typical operating conditions and performance of the three MGA-30x89 gain blocks are as follows:

MGA-30789 - designed for applications that operate in the 40MHz to 2600MHz frequency range. At the typical operating condition of 5V and 110mA it delivers performance of 11.8dB Gain, 40dBm Output Third Order Intercept Point (OIP3), 24.5dBm Output Power at 1dB Gain Compression (P1dB), and 3.5dB noise figure at 3500MHz.

MGA-30889 - designed for applications that operate within the 40MHz to 2600MHz frequency range. At the typical operating condition of 5V and 65mA it delivers performance of 15.5 dB Gain, 37dBM OIP3, 20dBm P1dB, and 2.1dB noise figure at 900MHz.

MGA-30989 - designed for applications that operate within the 2000MHz to 6000MHz frequency range. At the typical operating condition of 5V and 56mA it delivers performance of 12.4dB Gain, 36dBM OIP3, 22dBM P1db, and 2.0dB noise figure at 3500MHz.

Pricing and Availability

Avago's MGA-30789 and MGA-30889/30989 flat gain, high linearity gain blocks are available now with pricing starting from $1.69 and $1.25, 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 Finance Pte. Ltd.'s Annual Report on Form 20-F filed with the SEC on December 17, 2008, recent Current Reports on Form 6-K, 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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