

PRESS RELEASE

Avago Technologies Introduces Two New Balanced Low Noise Amplifiers for Cellular Infrastructure Applications

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Ultra-Low Noise, High Linearity Matched Pair LNAs Are Economical, Easy to Install and Supports All Major Cellular Bandwidths

BFI OPTILAS and Avago Technologies, today announced two ultra-low noise, high gain, high linearity Gallium Arsenide (GaAs) balanced low noise amplifiers for cellular infrastructure applications. Avago's MGA-16516/17516, which are the latest additions to its family of economical, easy to use LNAs, helps to significantly improve the sensitivity and dynamic range of cellular infrastructure applications.

Typical applications include cellular base station transceiver radio cards, tower mounted amplifiers, combiners, repeaters and remote/digital radio heads.

Avago's MGA-16516/17516 LNAs are housed in a 4 mm by 4 mm by 0.85 mm surface mount 16-lead QFN package, and were developed using Avago's proprietary 0.25 μ m GaAs enhancement-mode pHEMT process. The MGA-16516 operates from 500 to 1,700 MHz, while the MGA-17516 operates from 1,700 to 2,700 MHz. These new LNAs will enable Avago to provide support for GSM, CDMA, UMTS and next generation LTE cellular bandwidths. The MGA-16516/17516 have been designed to be used with 3dB hybrid couplers at the input and output of LNAs typically found in the front end of cellular base stations, combiners and transceiver radio cards.



In a typical operating environment of 5-Volts and 50mA per channel, the MGA-16516 delivers a 0.45 dB noise figure, 17.5 dB gain, 11.5 dBm input Third Order Intercept Point (IIP3), and 18 dBm output power at 1 dB compress point (P1dB) at 850MHz. Under the same operating conditions, the MGA-17516 delivers enhanced performance of 0.52 dB noise figure, 17.2 dB Gain, 13.7 dBm IIP3, and 21.5 dBm output power at P1dB at 1,850 MHz.

Samples and production quantities are available now through your local **BFI OPTILAS Sales Office**.

About BFI OPTILAS

BFI OPTILAS is a pan-European technical distributor of specialist products and services, including design-engineering support, to the electronics and Photonics markets. BFI OPTILAS focuses on niche technology products such as magnetic, lasers, sensors, connectors, electro-optics, imaging, fiber optics, RF & microwave and other specialty components, systems, assemblies and metals. Some 290 sales engineers and other staff are employed at 12 offices throughout Europe.

BFI OPTILAS International SAS, 4 Allée du Cantal, CE 1835, 91018 Evry, France.

Phone: +33 1 60 79 59 00, Fax: +33 1 60 79 89 70. www.bfioptilas.com - Email: info@bfioptilas.com