Alpha Introduces Four HBT Gain Block Amplifiers for RF and IF Applications

Alpha has introduced a family of four new Broadband HBT amplifiers for the growing broadband and wireless access markets. These HBT amplifiers exhibit low noise and high linearity performance characteristics over a wide frequency range making them ideally suited for applications in Cellular and PCS base stations, cable systems, direct to home satellite systems, wireless LAN (Bluetooth, WI-FI (802.11b) and HomeRF), Hyperlan2 and 802.11a Systems. The complete family of HBT amplifiers are designed as cadeable 50 Ω gain blocks and all four amplifiers are available in industry-standard tape and reel packages.

The GBH112 provides 13 dB of small signal gain with 8.0 GHz of bandwidth. It has a P1dB of 12.5 dBm at 2.0 GHz and Ip3 of 25 dBm. The GBH112 is available in Plastic Micro-X and the smaller SC-88 package.

The GBH114 operates from DC - 6.0 GHz with 15 dB of gain and a 3 dB bandwidth of 6.0 GHz. It provides P1dB of 16 dBm at 2.0 GHz and Ip3 of 31 dBm. The GBH114 is available in Plastic Micro-X and the smaller SC-88 Package.

The GBH120 is designed for DC - 4.0 GHz operation with 18 dB small signal gain. It provides P1dB of 18 dBm at 2.0 GHz and 33 dBm of Ip3. The GBH120 is available in Plastic Micro-X and the smaller SC-88 Package.

The GBH121 is designed for DC - 3.0 GHz operation with 22 dB small signal gain. It provides 12 dBm of P1dB and 25 dBm Ip3 at 2.0 GHz. The GBH121 is available in Plastic Micro-X and the smaller SC-88 Package.

These new broadband amplifiers join Alpha Industries' line of RF, microwave and millimeterwave GaAs ICs, discrete semiconductor devices, and multifunction modules.

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