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The TriQuint AH102A-G is a medium power gain block that offers excellent dynamic range in a low-cost surface mount package. The combination of a single supply voltage and an internally matched device makes it ideal for both narrow and broadband applications.

Superior thermal design allows the product to achieve +46 dBm IP3 performances at a mounting temperature of +85 °C with an associated MTTF of greater than 1000 years. The AH102A-G is available in the environmentally-friendly lead-free / green / RoHS-compliant SOT-89 package.

The broadband amplifier uses a high reliability GaAs MESFET technology and is targeted for applications where high linearity is required. It is well suited for various current and next generation wireless technologies such as GSM, CDMA, WCDMA, and LTE. In addition, the AH102A-G will work for other applications within the 250 to 3000 MHz frequency range such as broadband wireless.

Frequency (MHz)	Gain (dB)	P1dB (dBm)	Output IP3 (dBm)	NF (dB)	Vdd (V)	Idd (mA)	Package Style
350 to 3,000	14.5	27	46	3.1	9	200	SOT-89

Product Features

- 350 to 3000 MHz
- +46 dBm Output IP3
- 14.5 dB gain
- +27 dBm P1dB
- MTTF > 1000 years
- Internally matched
- Single +9 V supply
- Lead-free / green / RoHS compliant
- SOT-89 package

Typical Applications

- Defense / Homeland Security
- Fixed Wireless
- Industrial, Scientific and Medical (ISM)
- Mobile Infrastructure

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Documents & Files

- [Product Datasheet](#)
- [S-Parameters](#)
- [Bill Of Materials - AH102A-PCB2000](#)
- [Bill Of Materials - AH102A-PCB900](#)
- [Gerber PCB Layout Files](#)
- Package Information: [PDF](#), [DWG](#)

Additional Information

RoHS: Yes **Status:** Production
Lead Free: Yes **Updated:** 11/28/2012
Halogen Free: Yes