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## 0.5 Watt 2-Stage Broadband Linear Amplifier

Part # AH103A-G

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### Key Features

- 60 to 2700 MHz
- +27 dBm P1dB
- +46 dBm Output IP3
- 29 dB Gain @ 900 MHz
- MTTF > 100 years
- Lead-free / green / RoHS compliant
- SOIC-8 package

### Description

The TriQuint AH103A-G is a high gain, high linearity 0.5 Watt amplifier. This device is comprised of two individual MMIC amplifiers internally and can be used with an external interstage match for any of the mobile infrastructure frequency bands. The dual-stage amplifier achieves up to +46 dBm IP3 performance with 29 dB gain.

The device conforms to TriQuint's long history of producing high reliability and quality components. The AH103A-G has an associated MTTF of a minimum of 100 years at a mounting temperature of +85 °C and is housed in a lead-free / green / RoHS-compliant SOIC-8 package. All devices are 100% RF and DC tested.

The product is targeted for use as driver amplifiers for wireless infrastructure where high performance and high linearity are required.

### Specifications

Frequency (MHz)	60 to 2,700
Gain (dB)	29
P1dB (dBm)	27
Output IP3 (dBm)	46
NF (dB)	2.5
Voltage (V)	9
Current (mA)	275
Package Style	SOIC-8
RoHS	Yes
Lead Free	Yes
Halogen Free	Yes

### Product Documents



[Bill Of Materials - AH103A-PCB1900](#)



[Gerber PCB Layout Files](#)



[Bill Of Materials - AH103A-PCB2140](#)



[Package Information - DWG](#)



[Bill Of Materials - AH103A-PCB900](#)



[Package Information - PDF](#)



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### Typical Applications

Industrial, Scientific and Medical (ISM)

Mobile Infrastructure

### Additional Information

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