RSS Print Email

< Back

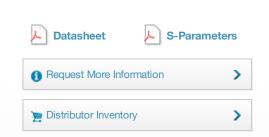
PRODUCTS

APPLICATIONS

FOUNDRY

RESOURCES

HOW TO BUY



0.5 Watt 2-Stage Broadband Linear Amplifier

Part # AH103A-G

Last Time Buy Use TQP8M9013 for new designs

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 $+85\,^{\circ}\text{C}$ 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 DWGPackage Information PDF
- Bill Of Materials AH103A-PCB900
- S-Parameters

Typical Applications

Product Datasheet

Industrial, Scientific and Medical (ISM)

Mobile Infrastructure

Additional Information

Status Last Time Buy

Products

Amplifiers
Control Products
Discrete Transistors
Filters & Duplexers
Frequency Converters
Integrated Products
Optical Components
Passives
Standard Products

Applications

Mobile Devices
Network Infrastructure
Defense & Aerospace
WLAN / Bluetooth
Base Station
Cable / FTTH
Optical
Point-to-Point Radio
VSAT
GaN Products

Foundry

Welcome to Foundry Services Our Processes GaN Foundry Technology Resources

Application Notes Brochures Corporate Supplier Resources Technical Papers Videos Brands

QUANTUM TxTM
SpatiumTM
TRITIUMTM
TRIUMFTM
TriConnect®
TriAccessTM

About Us Careers Newsroom Quality Contact Us

Company



