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AH202-F

1 Watt Broadband Linear Amplifier

The TriQuint AH202-F is a 1 Watt driver amplifier that offers excellent dynamic range in a low-cost, leadree / RoHS compliant 6x6 mm 28-pin QFN surface-mount package. This device provides its optimum P1dB and OIP3 performance when biased at + 11 V. It can also be biased as low as +9 V for lower power applications No external matching is needed for applications below 1 GHz. The backside metalization provides excellent thermal dissipation while allowing visible evidence of solder reflow across the bottom of the package on a SMT board. Superior thermal design allows the product an MTTF of over 100 years at a mounting temperature of +85º C. All devices are 100% RF and DC tested.

The product is targeted for use as a wideband driver amplifier for wireless infrastructure, CATV, or defense electronics where high linearity and instantaneous broadband performance is required.

Frequency (MHz)	**Gain** (dB)	**P1dB** (dBm)	**Output IP3** (dBm)	**NF** (dB)	**Vdd** (V)	**Idd** (mA)	**Package Style**
30 to 2,200	17	30	47	2.5	11	330	6 x 6 mm

Product Features

- 30 to 2200 MHz
- 17 dB gain @ 900 MHz
- +30 dBm P1dB
- +47 dBm Output IP3
- Single positive supply
- Internally matched
- Lead-free / RoHS compliant
- 6 x 6mm QFN SMT package

Typical Applications

- CATV / DBS
- Defense / Homeland Security
- Mobile Infrastructure

Documents & Files

- **Product Datasheet**
- S-Parameters
- Bill Of Materials - AH202-PCB1900
- Bill Of Materials - AH202-PCB2140
- Bill Of Materials - AH202-PCB900
- Gerber PCB Layout Files
- Package Information: PDF, DWG

Additional Information

RoHS:	Yes	**Status:**	Production
Lead Free:	Yes	**Updated:**	12/19/2011
Halogen Free:	Yes		

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