

PRODUCT SUMMARY

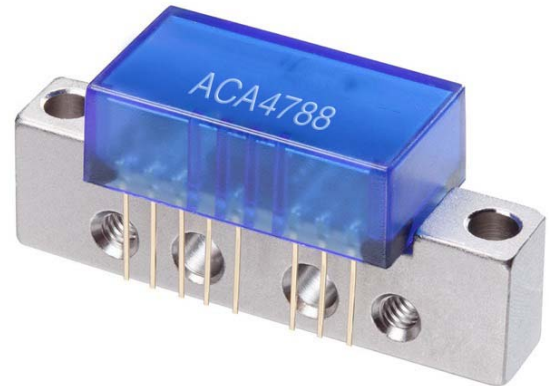
ACA4788: 1218 MHz High-Output GaN CATV Power-Doubler Amplifier

Applications

- DOCSIS® and Euro DOCSIS® 3.1 (D3.1) compliant downstream
- Final stage RF amplifier for node + 0 HFC and FTTC/FTTB networks
- Output stage RF amplifier for D-CCAP/D-PHY transmitters

Features

- 50 to 1218 MHz frequency range
- 23 dB gain @ 1218 MHz
- +61 dBmV/channel output power
- >+76.6 dBmV total composite power
- Single +24 Vdc power supply input
- Advanced GaAs pHEMT driver + GaN amplifier technologies
- Halogen free/RoHS compliant



Description

The ACA4788 is a highly linear high-output power RF amplifier module in the industry standard SOT-115 package. Designed for deep fiber node CATV infrastructure applications, the module consists of two parallel amplifiers in cascade, forming a power doubler optimized for low distortion, high output power, and very high TCP.

A functional block diagram is shown in Figure 1.



Skyworks Green™ products are compliant with all applicable legislation and are halogen-free. For additional information, refer to *Skyworks Definition of Green™*, document number SQ04-0074.

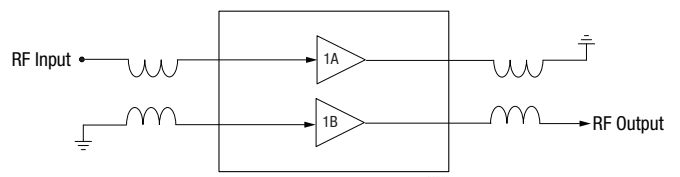


Figure 1. ACA4788 Functional Block Diagram

Ordering Information

Product Description	Product Part Number	Evaluation Board Part Number
ACA4788: High-Output GaN CATV Power-Doubler Amplifier	ACA4788	N/A

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