PRODUCT SUMMARY

ACA2778: 1000 MHz High-Output CATV Push-Pull Amplifier

Applications

- CATV systems operating in the 50 to 1000 MHz frequency range
- 1000 and 874 MHz upgrades
- 1000 and 874 MHz high-gain MDU/MTU range-extension applications
- Direct drop-in for NXP CGY888/BGY888/ BGY835C @ either 1000 or 874 MHz

Features

- 50 to 1000 MHz frequency range
- 35 dB Gain @ 1000 MHz
- +44 dBmV RF output power
- Single +24 Vdc power supply input
- Operating Current = 280 mA (P_{DISS} = 7 W_{DC})
- Proven GaAs amplifier technology
- Halogen-free/RoHS compliant

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.

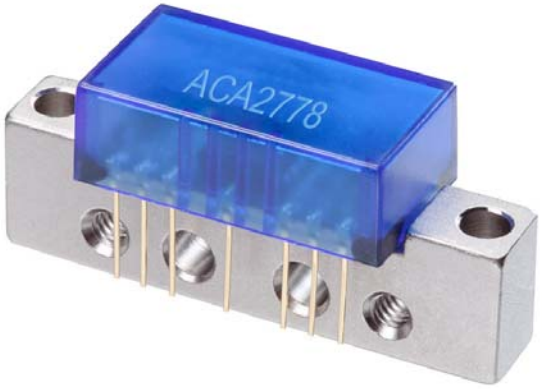


Figure 1. SKY85743-21 Block Diagram

Description

The ACA2778 is a hybrid amplifier module in a SOT115 package, operating at a supply voltage of +24 V (DC), employing GaAs MESFET MMIC technology. The module consists of two parallel amplifiers in cascade forming a push-pull optimized for low noise, low distortion, high gain, and high output power per channel. High gain permits 1000 and 874 MHz upgrades without expensive and disruptive amplifier re-spacing. A functional block diagram is shown in Figure 1.

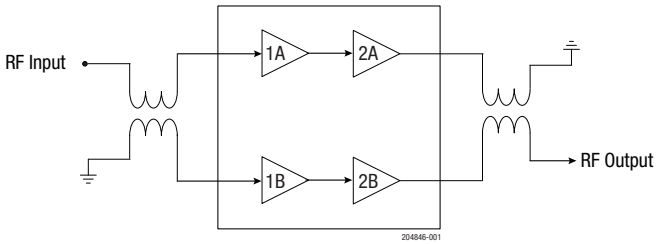


Figure 1. ACA2778 Functional Block Diagram

Ordering Information

Product Description	Package Description	Component Packaging
ACA2778Q9: 1000 MHz High-Output CATV Push-Pull Amplifier	SOT-115 Hybrid Amplifier	100 Piece Box

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