

Automotive-Grade, Filter-Free 3W Class-D Audio Amplifier

NAU83U25YG • High Performance • Reliable

Introduction

NAU83U25YG is a stereo, high-efficiency, filter-free Class-D audio amplifier, capable of driving a $4\ \Omega$ load with up to 3.0W output power. This device provides I²C control and I²S audio input, featuring low standby current and fast start-up time.

Features

- Operating Temperature Range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$
- Automotive-Grade: AEC-Q100 qualification & TS16949 compliant
- Gain Setting with 2-wire interface, 22 dB to -62 dB
- Powerful Stereo Class-D Amplifier, 2-channel x 3.0W ($4\ \Omega$ @ 5V, 10% THD+N)
- Low Output Noise: 18 μV_{rms} @ 0 dB gain

Applications

