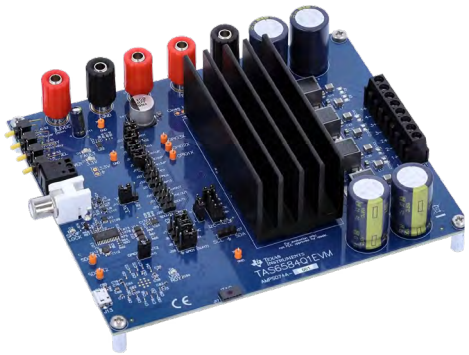
TAS6584-Q1 Evaluation Module

TAS6584Q1EVM

18/11/2026
For the most up-to-date information, visit **mouser.com** or the manufacturer's website.

DESCRIPTION

Texas Instruments TAS6584-Q1 (TAS6584Q1EVM) Evaluation Module features the TAS6584-Q1, a 45V, 10A digital-input, four-channel automotive Class-D audio amplifier. This module comes with current sensing, real-time load diagnostics, and an on-board USB-I²C controller for GUI-driven EVM evaluation. The TAS6584-Q1 automotive Class-D amplifier helps create an immersive audio experience while supporting real-time speaker diagnostics during audio playback. This EVM delivers 213W (1% THD+N) per channel into 4Ω at 45V supply and integrates DC and AC standby-load diagnostics. The TAS6584-Q1 device also includes spread spectrum technology to meet CISPR25 Class 5 EMI compliance standards.

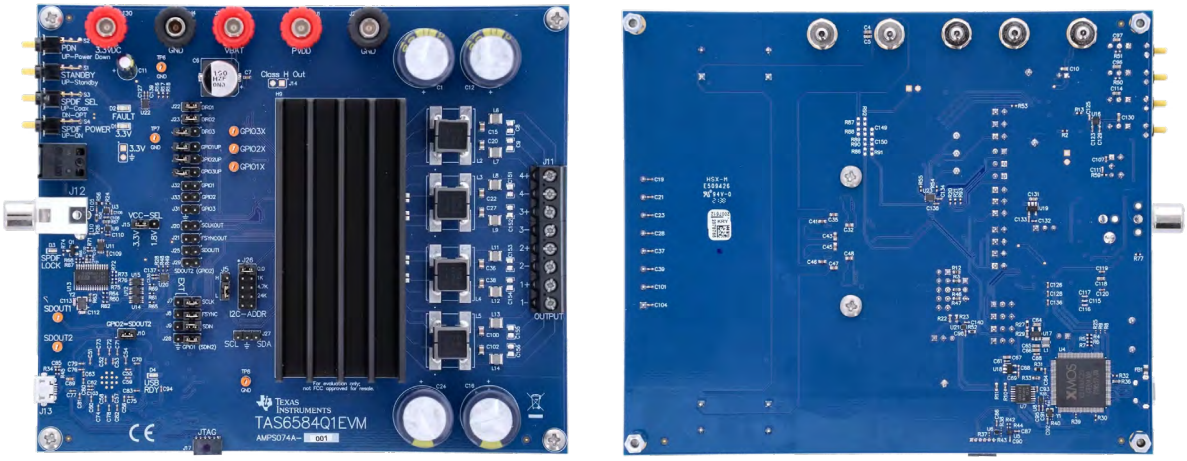


FEATURES

- Four-channel 213W per channel at 1% THD+N into 4Ω with a 45V supply.
- 45V automotive Class-D audio amplifier with integrated current sense delivers maximum output power and high-fidelity audio.
- Immersive audio experience while supporting real-time speaker diagnostics during audio playback.
- The integrated DSP of the TAS6584-Q1 enables Class-H envelope tracking, eliminating the need for development of complex tracking software or an external microcontroller.
- The TAS6584-Q1 features low idle current for 45V Class-D amplifiers (<2W at 14.4V) and a very-efficient low-to-high power operation.
- Optical SPDIF, USB, and PSIA (external I²S) input options.

The information contained in this document should be used as a guideline only.

BOARD VIEW



MOUSER PART NUMBER

View Part

To learn more, visit **https://www.mouser.com/en/new/texas-instruments/ti-tas6584q1evm-evaluation-module/**

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