

TDA2075

STEREO 75W (8 Ω) CLASS-T DIGITAL AUDIO AMPLIFIER DRIVER USING DIGITAL POWER PROCESSING THE TECHNOLOGY

ADVANCED INFORMATION

Revision 2.1 - December 2004

GENERAL DESCRIPTION

The TDA2075 is a two-channel, 75W (8Ω) per channel Amplifier Driver that uses Tripath's proprietary Digital Power Processing (DPPTM) technology. The TDA2075 offers higher integration over previous Tripath amplifiers driver chipsets while providing exceptional audio performance for real world applications. Class-T amplifiers offer both the audio fidelity of Class-AB and the power efficiency of Class-D amplifiers.

Applications

- ➤ Powered DVD Players
- Audio/Video Amplifiers & Receivers
- Multimedia Speakers

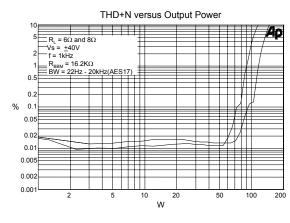
Benefits

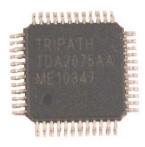
- Reduced system cost with smaller/less expensive power supply and heat sink
- Signal fidelity equal to high quality Class-AB amplifiers
- High dynamic range compatible with digital media such as CD and DVD

Features

- Class-T architecture with proprietary DPP
- "Audiophile" Sound Quality
 - > THD+N 0.015% at 50W, 8Ω, 1kHz
- > High Efficiency
 - \triangleright 91% at +/-40V and 120W, 8 Ω
- Supports wide range of output power levels
 - Up to 120W/channel (6Ω), single-ended outputs, @+/- 40V with 1% THD+N
- > Full Audio Bandwidth, 20Hz to 20kHz
- > Output over-current protection
- Over- and under-voltage protection
- Over-temperature protection
- > 48-Pin LQFP Package
- Complete Amplifier Evaluation Board available

Typical Performance for TDA2075





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