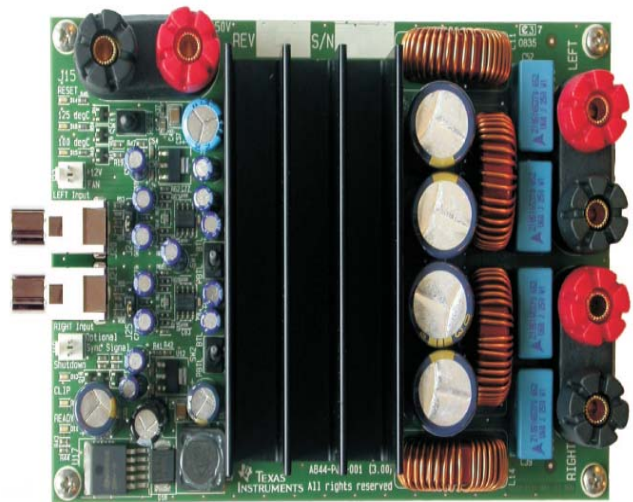


Texas Instruments - TAS5613PHD2EVM - Amplifier Evaluation Kit

Product Overview:

The TAS5613PHD2EVM PurePath™ Premier Pro customer evaluation module demonstrates the integrated circuit TAS5613PHD from Texas Instruments (TI). The TAS5613PHD is high-performance, integrated Stereo Feedback Analog-Input Digital Amplifier Power Stages designed to drive 4Ω speakers at up to 150W per channel for TAS5613PHD. This amplifier requires only a simple passive demodulation filter to deliver high-quality, high-efficiency audio amplification. This EVM is configured with 2 BTL channels and the possibility to apply either a single ended or a differential analog input signal. It is also possible to configure the two BTL channels into one parallel BTL (PBTL) channel. The OPA1632 is a High Performance Fully Differential Audio Op Amp designed to allow operation with single ended or differential input signals to the EVM. This EVM stuffed with either TAS5613PHD is a complete stereo analog input power amplifier ready for evaluation and great music.



Kit Contents:

- 1 pc TAS5613PHD2EVM board using one TAS5613PHD

Key Features:

- Stereo PurePath™ Premier Pro evaluation module.
- Self-contained protection system (short circuit and thermal).
- Standard 1VRMS single ended line input or differential input.
- Double-sided, plated-through PCB layout.

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
TAS5613PHD2EVM	TI	1789180	63R7588

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
OPA1632D	TI	High-Performance, Fully-Differential Audio Opamp	8467455	68K1111
LM317MDCY	TI	Positive Adjustable Regulator	1648658	75C0818
TL2575HV-15IKTTR	TI	STEP-DOWN Switching Voltage Regulator	1575029	28M7795
TAS5613PHDR	TI	Speaker Amplifier IC	NA	64R0648
TAS5613PHD	TI	Speaker Amplifier IC	1783862	55R1356

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
TAS5611PHD2EVM	TI	Audio amplifier EVM	TAS5611	1791551	63R9631

Document List:

Datasheets:

Part Number	Description	Size
OPA1632D	High-Performance, Fully-Differential Audio Opamp	774KB
LM317MDCY	Positive Adjustable Regulator	483KB
TL2575HV-15IKTTR	STEP-DOWN Switching Voltage Regulator	980KB
TAS5613HD	Speaker Amplifier IC	1.37MB

Application Notes:

File Name	Size
Filter-Free Class-D Audio Amplifiers	259KB
Audio Power Amplifier Operation with Transformer Load	114KB
Measuring Class-D Amplifiers for Audio Speaker Overstress Testing	175KB
Calculating Gain for Audio Amplifiers	238KB
PSRR for Purepath Digital Audio Amplifiers	159KB
Power supply decoupling & audio signal filtering for the Class-D audio power	258KB
Power Rating in Audio Amplifier	514KB
Audio power amplifier measurements	255KB
Characterizing Audio Amplifier Thermal Performance	277KB
System Design Considerations for True Digital Audio Power Amplifiers	675KB
Guidelines for Measuring Audio Power Amplifier Performance	765KB
Audio Power Amplifier Solutions for New Wireless Phones	243KB
Digital Audio Measurements	136KB

Hardware & Software:

File Name	Size
TAS5613PHD2EVM Gerber Files (Rev. A)	1.60MB