

FT2925 2*6W 双声道功放IC

产品名称	FT2925 2*6W 双声道功放IC
公司名称	深圳市联盈首锐科技有限公司
价格	.01/个
规格参数	品牌:方泰 型号:FT2925
公司地址	深圳市宝安区西乡街道宝安互联网产业基地海滨新村18栋二楼2012
联系电话	0755-89814686

产品详情

GENERAL DESCRIPTION

The ft2925 is a highly efficient 6W boosted Class-G stereo audio power amplifier with automatic level control (ALC) and battery tracking AGC. It integrates dual filterless Class-D audio amplifiers with an adaptive Class-G boost regulator and operates with a wide range of supply voltages from 3V to 5.5V. When operating with 3.6V supply voltage, it can deliver into a pair of 4 speakers at a maximum output power of 6W per channel with 10% THD+N, or 4.8W per channel with 1% THD+N.

In ft2925, the power supply rail of the audio amplifier's output stages is internally boosted by a synchronous PWM switching regulator with two integrated power

switches. The boost regulator employs current mode PWM control with proprietary multi-level Class-G operation to regulate the boosted voltage in response to the level of audio inputs.

The ft2925 features ALC function to constantly monitor audio outputs against the supply voltage applied to the audio amplifier ' s output stage, thus safeguarding against output clipping distortion, excessive power dissipation, and speaker over-load. Once an over-level condition is detected in either channel, the ALC lowers the voltage gain of both audio amplifiers proportionally to eliminate output clipping. In ALC mode, with 3.6V supply voltage, the ft2925 can deliver 4.5W per channel into a pair of 4 speakers with 0.3% THD+N.

In conjunction with ALC, the battery tracking AGC lowers the voltage gain of the audio amplifiers to limit the maximum audio outputs as the battery supply voltage drops below a prescribed value, preventing the collapse of battery voltage.

FEATURES

- Wide supply voltage range from 3V to 5.5V

- Filterless Class-D audio amplifier integrated with a multi-level Class-G synchronous boost regulator

- Automatic level control

- Battery tracking AGC

- Soft drive mode for EMI reduction

Maximum output power in Non-ALC mode

(VBAT=3.6V, ALC=High, 10% THD+N)

6.0W/Ch (4 load)

3.4W/Ch (8 load)

ALC output power in ALC Mode

(VBAT=3.6V, ALC=Low, 0.3% THD+N)

4.5W/Ch (4 load)

2.6W/Ch (8 load)

Wide ALC dynamic range: 12dB

Maximum voltage gain: 30dB

High efficiency up to 76%

Volume fade-in and fade-out

Under-voltage lockout protection

Auto-recovering over-current & short-circuit

protection

Thermal over-load protection

Available in TSSOP-28L package

APPLICATIONS

Blue Tooth Speakers

Performance Audio Speakers

Consumer Electronics