



NCP2809BGEVB: Stereo Audio Amplifier w/ Adjustable External Gain Evaluation Board

The NCP2809B is a cost-effective fixed gain stereo audio power amplifier capable of delivering 135 mW of continuous average power per channel into 16 ohm loads. This device has been specifically designed to provide high quality output power from low supply voltage, requiring very few external components. The device incorporates a proprietary virtual ground circuit which allows the speakers to be directly connected to the amplifier without the need for bulky DC blocking capacitors.

Since NCP2809 does not require bootstrap capacitors or snubber networks, it is optimally suited for low-power portable systems. The NCP2809B has adjustable gain by means of external resistors.



Features and Applications

Features

- 135 mW to a 16 ohm Load from a 5.0 V Power Supply
- Excellent PSRR (85 dB Typical): Direct Connection to the Battery
- Pop and Click Noise Protection Circuit
- Ultra Low Current Shutdown Mode
- 2.2 V-5.5 V Operation
- Outstanding Total Harmonic Distortion + Noise (THD+N): < 0.01%
- Thermal Overload Protection Circuitry

Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NCP2809BGEVB	Active	Pb-free	Stereo Audio Amplifier w/ Adjustable External Gain Evaluation Board	NCP2809BDMR2G	Contact Local Sales Office Inventory

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: Gerber	NCP2809BGEVB Gerber Layout Files (Zip Format)	NCP2809BGEVB_GERBER.ZIP - 66.0 KB	0
Eval Board: Schematic	NCP2809BGEVB Schematic	NCP2809BGEVB_SCHEMATIC.PDF - 21.0 KB	0
Eval Board: Test Procedure	NCP2809BGEVB Test Procedure	NCP2809BGEVB_TEST_PROCEDURE.PDF - 34.0 KB	0
Eval Board: BOM	NCP2809BGEVB Bill of Materials ROHS Compliant	NCP2809BGEVB_BOM_ROHS.PDF - 63.0 KB	2
Video	Stereo Audio Amplifier Evaluation Boards - NCP2809AEVB / NCP2809BGEVB	WVD17541/D	

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