

(ACTIVE) TIDA-00277

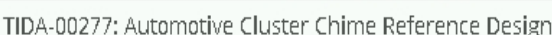
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Description

This TI reference design is a 3.1-W mono fully differential audio power amplifier driving a chime and is one part of an automotive cluster system solution optimized for the mid-end cluster market. The entire cluster solution supports 4.5-40V system capabilities that can withstand cold crank, start stop, and load dump conditions.

Features

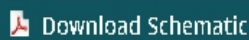
- 3.1-W mono fully-differential class-AB audio amplifier eliminating common-mode noise designed to drive a speaker with at least 3-Ω impedance
- Only three external components (No input coupling caps) required by the TPA6211A1-Q1 amplifier Reducing the overall external component count



i Fully assembled board (shown above) developed for testing and performance validation only, not available for sale.

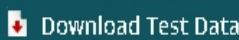
Schematic/Block Diagram

Quickly understand overall system functionality.



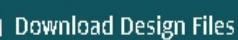
Test Data

Get results faster with test and simulation data that's been verified.



Design Files

Download ready-to-use system files to speed your design process. [Get Viewer.](#)



Bill of Materials (BOM)

Find the complete list of components in this reference design.

TI Devices (1)

Order samples, get tools and find more information on the TI products in this reference design.

Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
TPA6211A1-Q1	Automotive Catalog 3.1-W Mono, Fully Differential, Class-AB Audio Amplifier	Portable Amplifier	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package Pins	CAD File (.bxl)	STEP Model (.stp)
TPA6211A1-Q1	HVSSOP (DGN) 8	Download	Download

Texas Instruments and Accelerated Designs Inc. have collaborated together to provide TI customers with schematic symbols and PCB layout footprints for TI products.

Step 1: Download and install the Ultra Librarian software [ZIP: 62MB](#)

Step 2: Download the Symbol and Footprint .bxl file.

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Technical Documents

User Guides (2)

Title	Abstract	Type	Size (KB)	Date	Views
 TIDA-00277 Design Considerations		PDF	101	02 Oct 2014	17
 TIDA-00277 Test Results		PDF	357	02 Oct 2014	7

Design Files (3)

Title	Abstract	Type	Size (KB)	Date	Views
TIDA-00277 Gerber		ZIP	102	02 Oct 2014	12
 TIDA-00277 BOM		PDF	194	02 Oct 2014	22
 TIDA-00277 Block Diagram		PDF	27	02 Oct 2014	35

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