

Audio Amp Speaker 1-CH Mono/2-CH Stereo 40W Class-D 32-Pin HTSSOP EP T/R

Manufacturer:	Texas Instruments, Inc	<input type="text" value="TAS5760MDAPR Image"/>
Package/Case:	HTSSOP32	Images are for reference only
Product Type:	Amplifier ICs	<input type="button" value="Inquiry"/>
RoHS:	RoHS Compliant/Lead free 	
Lifecycle:	Active	

General Description

The DAC7551-Q1 device is a single-channel, voltage-output digital-to-analog converter (DAC) with exceptional linearity and monotonicity, and a proprietary architecture that minimizes glitch energy. The low-power DAC7551-Q1 device operates from a single 2.7- to 5.5-V supply. The DAC7551-Q1 output amplifiers can drive a 2-k Ω , 200-pF load rail-to-rail with 5- μ s settling time. The output range is set using an external voltage reference.

The 3-wire serial interface operates at clock rates up to 50 MHz and is compatible with SPI , QSPI , microwire, and DSP interface standards. The device incorporates a power-on-reset (POR) circuit to ensure that the DAC output powers up to 0 V and remains at that voltage until a valid write cycle to the device occurs. The device contains a power-down feature that reduces the current consumption of the device to under 2 μ A.

Small size and low-power operation make the DAC7551-Q1 device ideally suited for battery-operated, portable applications. The power consumption is typically 0.5 mW at 5 V, 0.23 mW at 3 V, and reduces to 1 μ W in power-down mode.

The DAC7551-Q1 device is available in a 12-pin USON package and is specified over -40°C to +105°C. The Z-suffix offers reduced delamination compared to standard device.

Key Features

Qualified for Automotive Applications

Relative Accuracy (INL): ± 0.35 LSB

Ultra-Low Glitch Energy: 0.1 nV-s

Low-Power Operation: 100 μ A at 2.7 V

Power-On Reset-to-Zero Scale

Power Supply: 2.7- to 5.5-V Single Supply

Power-Down: 0.05 μ A at 2.7 V

12-Bit Linearity and Monotonicity

Rail-to-Rail Voltage Output

Settling Time: 5 μ s (Max)

SPI-Compatible Serial Interface With Schmitt-

Trigger Input: Up to 50 MHz

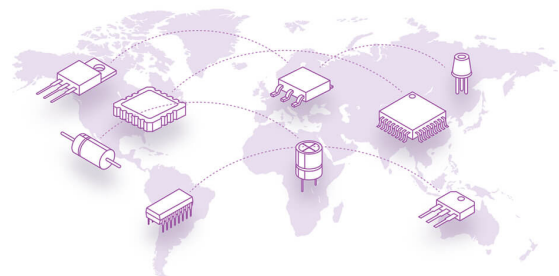
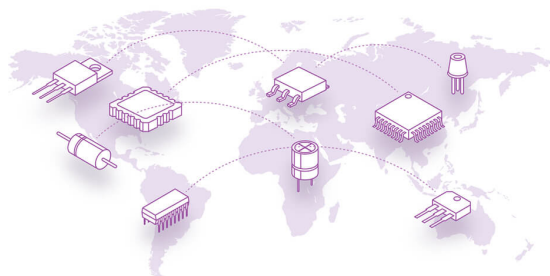
Daisy-Chain Capability

Asynchronous Hardware Clear-to-Zero Scale

Specified Temperature Range:

Small, 2-mm \times 3-mm, 12-Lead USON Package

Z-Suffix Offers Improved Delamination



Recommended For You

TAS5142DKD

Texas Instruments, Inc
HSSOP36

TAS5717PHPR

Texas Instruments, Inc
HTQFP48

TAS5411QPWPRQ1

Texas Instruments, Inc
HTSSOP16

TAS5342ADDVR

Texas Instruments, Inc
HTSSOP44

TAS5707PHPR

Texas Instruments, Inc
HTQFP48

TAS5760MDCAR

Texas Instruments, Inc
HTSSOP48

TAS5414CTPHDRQ1

Texas Instruments, Inc
HTQFP-64

TAS2505IRGET

Texas Instruments, Inc
VQFN24

TAS2505IRGER

Texas Instruments, Inc
VQFN-24

TAS5086DBTR

Texas Instruments, Inc
TSSOP38

TAS3004PFB

Texas Instruments, Inc
QFP

TAS3004PFBR

Texas Instruments, Inc
TQFP-48

TAS5076PFC

Texas Instruments, Inc
QFP

TAS3108DCP

Texas Instruments, Inc
HTSSOP38

TAS2557YZR

Texas Instruments, Inc
DSBGA42