

Audio Amp Speaker 1-CH Mono 43.2W Class-D Automotive 32-Pin HTSSOP EP T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [Texas Instruments, Inc](#)

Package/Case: HTSSOP-32

Product Type: Amplifier ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The TAS5720A-Q1 is a mono I²S input Class-D audio amplifier which is ideal for use in automotive emergency call (eCall), telematics, acoustic vehicle alerting system (AVAS) and EV/HEV sound generation applications. The device provides up to 25 W instantaneous power into 4 Ω at 10% THD+N at 14.4 V. The TAS5720A-Q1 also includes hardware and software (I2C) control modes, an integrated digital clipper, selectable gain options, and a wide power supply operating range (4.5 V – 26.4 V).

The device is offered in a thermally enhanced 32-Pin TSSOP package.

Key Features

Qualified for automotive applications
Temperature grade 1: -40°C to +125°C

Minimum supply voltage down to 4.5 V

Selectable hardware or software control

Audio performance (PVDD = 12 V, R_{SPK} = 8 Ω, SPK_GAIN[1:0] pins = 00)
Idle channel noise = 69 μVrms (A-Wtd)

THD+N = 0.02% (at 1 W, 1 kHz)

SNR = 100 dB A-Wtd (Ref. to THD+N = 1%)

Audio I/O configuration:
Mono I2S input

32, 44.1, 48, 88.2, 96 kHz Sample rates

General operational features:
Integrated digital output clipper

Programmable I2C address (1101100^[R/W] or 1101101^[R/W])

Closed-loop amplifier architecture

Robustness features:
Clock error, DC, and short-circuit protection

Overtemperature and programmable overcurrent protection

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

TAS5760MDAPR

Texas Instruments, Inc
HTSSOP32

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