

TPA6211TDGNRQ1

TPA6211T Q1 Automotive 3.1 W Mono Analog Input Class AB Audio Amplifier

Manufacturer: <u>Texas Instruments, Inc</u>

Package/Case: HVSSOP-8

Product Type: Amplifier ICs

RoHS: RoHS Compliant/Lead free

Lifecycle: Active



Images are for reference only



General Description

The TPA6211T-Q1 device is a 3.1-W mono fully-differential amplifier designed to drive a speaker with at least 3- impedance while consuming only 20 mm² total printed-circuit board (PCB) area in most applications. The device operates from 2.5 V to 5.5 V, drawing only 4 mA of quiescent supply current. The TPA6211T-Q1 device is available in the space-saving 8-pin HVSSOP package.

The device includes features such as a 80 dB supply voltage rejection ratio from 20 Hz to 2 kHz, improved RF rectification immunity, small PCB area, and a fast start-up with minimal pop makes the TPA6211T-Q1 device ideal for emergency call applications. Additionally, the device supports low-power needs in infotainment and cluster applications, such as cluster chimes or driver notification.

Key Features

AEC-Q100 Qualified for automotive applications Device Temperature Grade 2: -40°C to 105°C

Device HBM ESD classification level 3A

Device CDM ESD classification level C6

3.1 W into 3 from a 5-V supply at THD = 10% (typical)

Low supply current: 4 mA (typical) at 5 V

Shutdown current: $0.01~\mu A$ (typical)

Fast startup with minimal pop

Only three external components Improved PSRR (80 dB) and wide supply voltage (2.5 V to 5.5 V) for direct battery operation

Fully differential design reduces RF rectification

63 dB CMRR Eliminates two input coupling capacitors

Recommended For You

TPA3125D2N

Texas Instruments, Inc

DIP20

TPA6111A2DR

Texas Instruments, Inc

SOP8

TPA2012D2RTJR

Texas Instruments, Inc

QFN20

TPA6132A2RTER

Texas Instruments, Inc

QFN

TPA2013D1RGPR

Texas Instruments, Inc

QFN20

TPA2010D1YZFR

Texas Instruments, Inc

DSBGA9

TPA3118D2QDAPRQ1

Texas Instruments, Inc

HTSSOP-32

TPA6211A1TDGNRQ1

Texas Instruments, Inc

MSOP8

TAS5414CTPHDRQ1

Texas Instruments, Inc

HTQFP-64

PCM1681TPWPRQ1

Texas Instruments, Inc

HTSSOP28

TPA3131D2RHBR

Texas Instruments, Inc

VQFN32

TPA3100D2PHP

Texas Instruments, Inc

QFP

TPA3244DDWR

Texas Instruments, Inc

HTSSOP-44

TPA6017A2PWP

Texas Instruments, Inc

HTSSOP20

TPA4861D

Texas Instruments, Inc

Email: sales@avaq.com

SOP8