


Dual H-Bridge Motor Driver 28-Pin HTSSOP EP T/R

Manufacturer:	Texas Instruments, Inc
Package/Case:	HTSSOP28
Product Type:	Driver ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The OPAx188-Q1 operational amplifier family uses TI's proprietary zero drift techniques to provide low offset voltage (25- μ V maximum) and near zero-drift over time and temperature. This miniature, high-precision, low-quiescent current amplifier family offers high input impedance and rail-to-rail output swing within 15 mV of the rails. The input common-mode range includes the negative rail. Either single or dual supplies can be used in the range from 4 V to 36 V (± 2 V to ± 18 V).

The OPA188-Q1 and OPA2188-Q1 are both offered in VSSOP-8. The single-channel version (OPA188-Q1) is fully specified from -40°C to $+125^{\circ}\text{C}$, and the dual-channel version (OPA2188-Q1) is fully specified from -40°C to $+105^{\circ}\text{C}$.

Key Features

AEC-Q100 Qualified With the Following Results:

OPA2188-Q1 Device Temperature Grade 2:

Device HBM ESD Classification Level 1C

Device CDM ESD Classification Level C5

Wide Supply Range: ± 2 V to ± 18 V

Zero-Drift: $0.03 \mu\text{V}/^\circ\text{C}$

Low Noise: $8.8 \text{ nV}/\sqrt{\text{Hz}}$

Hz

0.1-Hz to 10-Hz Noise: $0.25 \mu\text{V}$

PP

Excellent DC Precision:

PSRR: 142 dB

CMRR: 146 dB

Open-Loop Gain: 136 dB

Gain Bandwidth: 2 MHz

Quiescent Current: $510 \mu\text{A}$ (Maximum)

Wide Supply Range: ± 2 V to ± 18 V

Rail-to-Rail Output

Input Includes Negative Rail

RFI Filtered Inputs

Recommended For You

TL7705ACDR

Texas Instruments, Inc

SOP8

DRV8839DSSR

Texas Instruments, Inc

WSOP-12

REF5025AQDRQ1

Texas Instruments, Inc

SOP8

TL431ACDR

Texas Instruments, Inc

SOP8

LM74800QDRRRQ1

Texas Instruments, Inc

WSOP-12

LP2951-50QDRGRQ1

Texas Instruments, Inc

SON-8

LM385BDR-2-5

Texas Instruments, Inc
SOP8

TL1431QDR

Texas Instruments, Inc
SOP8

UCC28064ADR

Texas Instruments, Inc
SOP16

TPS2557DRBT

Texas Instruments, Inc
SON8

DRV8846RGER

Texas Instruments, Inc
VQFN24

TPS2042BDR

Texas Instruments, Inc
SOP8

TPS2051BDR

Texas Instruments, Inc
SOP8

TPS2116DRLR

Texas Instruments, Inc
SOT5X3-8

DRV8837DSGR

Texas Instruments, Inc
WSON8