

Current Mode PWM Controller -0.1V to 11V 1A 500kHz 8-Pin SOIC Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Texas Instruments, Inc](#)

Package/Case: SOP-8

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The LP5907-Q1 is a low-noise LDO that can supply 250 mA of output current. Designed to meet the requirements of RF and analog circuits, the LP5907-Q1 provides low noise, high PSRR, low quiescent current, and low line or load transient response figures. Using new innovative design techniques, the LP5907-Q1 offers class-leading noise performance without a noise bypass capacitor and the ability for remote output capacitor placement.

The device is designed to work with a 1- μ F input and a 1- μ F output ceramic capacitor (no separate noise bypass capacitor is required).

This device is available with fixed output voltages from 1.2 V to 4.5 V in 25-mV steps. Contact Texas Instruments Sales for specific voltage option needs.

Key Features

AEC-Q100 qualified for automotive applications:
Temperature grade 1: -40°C to 125°C, T_A

Input voltage range: 2.2 V to 5.5 V

Output voltage range: 1.2 V to 4.5 V

Stable with 1-μF ceramic input and output capacitors

No noise bypass capacitor required

Remote output capacitor placement

Thermal-overload and short-circuit protection

Output current: 250 mA

Low output voltage noise: < 6.5 μV_{RMS}

PSRR: 82 dB at 1 kHz

Output voltage tolerance: ±2%

Virtually zero I_Q (disabled): < 1 μA

Very low I_Q (enabled): 12 μA

Start-up time: 80 μs

Low dropout: 120 mV (typical)

-40°C to 125°C junction temperature range for operation

Recommended For You

UCC28064ADR

Texas Instruments, Inc

SOP16

UC3637N

Texas Instruments, Inc

DIP-18

UCC27517DBVR

Texas Instruments, Inc

SOT23-5

UCC2946IPWRQ1

Texas Instruments, Inc

TSSOP8

UCC28730QDRQ1

Texas Instruments, Inc

SOP7

UCC21222QDRQ1

Texas Instruments, Inc

SOP16

UCD9090QRGZRQ1

Texas Instruments, Inc

VQFN-48

UCC27531QDBVRQ1

Texas Instruments, Inc

SOT23-6

UCC27511AQDBVRQ1

Texas Instruments, Inc

SOT23-6

UCC2803QDRQ1

Texas Instruments, Inc
SOP8

UCC28951QPWRQ1

Texas Instruments, Inc
TSSOP24

UCC21320QDWKRQ1

Texas Instruments, Inc
SOIC-14

UCC27322QDGNRQ1

Texas Instruments, Inc
HVSSOP-8

UCC28950QPWRQ1

Texas Instruments, Inc
TSSOP24

UCC2808AQDR-2Q1

Texas Instruments, Inc
SOP8