

Conv DC-DC 8V to 55V Step Down Single-Out 3.3V to 50V 1.5A 16-Pin SO W T/R

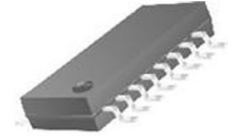
Manufacturer: [STMicroelectronics, Inc](#)

Package/Case: SOP16

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active



Images are for reference only

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General Description

The L4971 is a step down monolithic power switching regulator delivering 1.5A at a voltage between 3.3V and 50V (selected by a simple external divider). Realized in BCD mixed technology, the device uses an internal power D-MOS transistor (with a typical $R_{ds(on)}$ of 0.25 Ω) to obtain very high efficiency and high switching speed.

A switching frequency up to 300KHz is achievable (the maximum power dissipation of the packages must be observed).

A wide input voltage range between 8V to 55V and output voltages regulated from 3.3V to 50V cover the majority of today's applications.

Features of this new generations of DC-DC converter include pulse-by-pulse current limit, hiccup mode for short circuit protection, voltage feedforward regulation, soft-start, protection against feedback loop disconnection, inhibit for zero current consumption and thermal shutdown.

The device is available in plastic dual in line, DIP8 for standard assembly, and SO16W for SMD assembly.

Key Features

PROTECTION AGAINST FEEDBACK DISCONNECTION

INHIBIT FOR ZERO CURRENT CONSUMPTION

SOFT START FUNCTION

THERMAL SHUTDOWN

ZERO LOAD CURRENT OPERATION

VOLTAGE FEEDFORWARD

Recommended For You

TL431CDT

STMicroelectronics, Inc

SOP8

L4974A

STMicroelectronics, Inc

DIP20

L4941BV

STMicroelectronics, Inc

TO220

L4995JTR

STMicroelectronics, Inc
HSSOP12

L4981AD

STMicroelectronics, Inc
SOP20

L4981AD013TR

STMicroelectronics, Inc
SOP20

L4981BD

STMicroelectronics, Inc
SOP20

L4931ABD33-TR

STMicroelectronics, Inc
SOP-8

L4978

STMicroelectronics, Inc
DIP8

L4979MD013TR

STMicroelectronics, Inc
SOP-20

TL431ACZ-AP

STMicroelectronics, Inc
TO-92

L4984D

STMicroelectronics, Inc
SSOP10

TL431ACZ

STMicroelectronics, Inc
TO-92

TL431AIZ

STMicroelectronics, Inc
TO-92

TL431CL3T

STMicroelectronics, Inc
SOT23