

Conv DC-DC 2.85V to 15V Synchronous Inverting Single-Out -0.5V to -36.15V 16-Pin LFCSP EP T/R

Manufacturers	Analog Devices, Inc
Package/Case	16-WFQFN, CSP
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for ADP5073ACPZ-R7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The input voltage range of 2.85 V to 15 V supports a wide variety of applications. The integrated main switch enables the generation of an adjustable negative output voltage down to 39 V below the input voltage.

The ADP5073 operates at a pin selected 1.2 MHz/2.4 MHz switching frequency. The ADP5073 can synchronize with an external oscillator from 1.0 MHz to 2.6 MHz to ease noise filtering in sensitive applications. The regulator implements programmable slew rate control circuitry for the MOSFET driver stage to reduce electromagnetic interference (EMI).

The ADP5073 includes a fixed internal or resistor programmable soft start timer to prevent inrush current at power-up. During shutdown, the regulator completely disconnects the load from the input supply to provide a true shutdown. A power-good pin is available to indicate the output is stable.

Other key safety features in the ADP5073 include overcurrent protection (OCP), overvoltage protection (OVP), thermal shutdown (TSD), and input undervoltage lockout (UVLO).

The ADP5073 is available in a 16-lead LFCSP and is rated for a -40°C to +125°C operating junction temperature range.

Features

Wide input voltage range: 2.85 V to 15 V

Adjustable negative output to $V_{IN} - 39$ V

Integrated 1.2 A main switch

1.2 MHz/2.4 MHz switching frequency with optional external frequency synchronization from 1.0 MHz to 2.6 MHz

Resistor programmable soft start timer

Slew rate control for lower system noise

Precision enable control

Power-good output

UVLO, OCP, OVP, and TSD protection

3 mm × 3 mm, 16-lead LFCSP

Supported by the ADIsimPower tool set

Application

Bipolar amplifiers, ADCs, digital-to-analog converters (DACs), and multiplexers

High speed converters

Radio frequency (RF) power amplifier (PA) bias

Optical modules



Related Products



[ADP3336ARMZ-REEL7](#)

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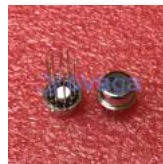
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