

Quad Linear Voltage Regulator, 500mA, Adjustable, 5.2 V 16-Pin, SMT

Manufacturers	Analog Devices, Inc
Package/Case	QFN16
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for HMC1060LP3ETR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The HMC1060LP3E is a BiCMOS ultra low noise quad-output linear voltage regulator targeted at high performance applications requiring superb power supply isolation.

Maximum 500 mA of current, distributed between four independent outputs, enable the HMC1060LP3E to supply all of the power needs of Hittite's Wideband PLL with Integrated VCO products, such as the HMC830LP6GE.

Although targeted at Hittite's Wideband PLLs with Integrated VCO products, the HMC1060LP3E makes an excellent general purpose regulator that supports adjustable output voltages ranging anywhere from 1.8V to 5.2V.

An Integrated PTAT (Proportional To Absolute Temperature) feature enabled via an external pin, allows the HMC1060LP3E to scale the supply voltage with temperature in order to maximize phase noise and output power performance of Hittite's Wideband with Integrated VCO products, as well as other devices powered by the HMC1060LP3E. Integrated thermal protection disables the outputs of the HMC1060LP3E at extreme temperatures, until the device cools down, making the HMC1060LP3E a robust device capable of dealing with temporary and unforeseen scenarios including momentary short circuits and extreme temperatures.

External Enable input provides a convenient way to power on or off all of the devices supplied by the HMC1060LP3E.

The HMC1060LP3E is housed in a 3x3 mm QFN SMT package.

Applications

Ultra Low Noise Frequency

Generation (PLLs, VCOs, PLLs with Integrated VCOs)

RF & Mixed-Signal Supply

Features

Ultra Low Noise: $3\text{nV}/\sqrt{\text{Hz}}$ at 10 kHz, $7\text{nV}/\sqrt{\text{Hz}}$ at 1 kHz

High Power Supply Rejection Ratio (PSRR) 80 dB at 1 kHz, 60 dB at 1 MHz

Four Adjustable Voltage Outputs: VR1: 100 mA at 1.8V to 5.2V VR2 & VR3: 50 mA at 1.8V to 5.2V VR4: 300 mA at 1.8V to 5.2V

Optional Proportional To Temperature (PTAT) Output Voltages: 7 % / 125 °C

Thermal Protection

Low Power-Down Current: $<1\ \mu\text{A}$

16 Lead 3x3 mm SMT Package: 9 mm²

Application

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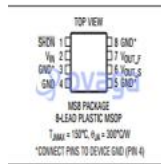


Related Products



[LTC6657AHMS8-2.5#PBF](#)

Analog Devices, Inc
MSOP-8



[LTC6655CHMS8-1.25#PBF](#)

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[LTC6655BHMS8-1.25#PBF](#)

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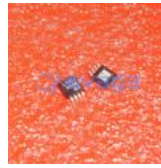
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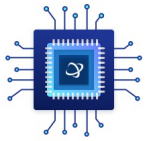
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[LT3580HMS8E#TRPBF](#)

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[HMC981](#)

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Die



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