

Switched Capacitor Building Block, 3 V to 18 V in, SOIC-18

Manufacturers	Analog Devices, Inc
Package/Case	SOP-18
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC1043CSW#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC1043 is a monolithic, charge-balanced, dual switched capacitor instrumentation building block. A pair of switches alternately connects an external capacitor to an input voltage and then connects the charged capacitor across an output port. The internal switches have a break-before-make action. An internal clock is provided and its frequency can be adjusted with an external capacitor. The LTC1043 can also be driven with an external CMOS clock.

The LTC1043, when used with low clock frequencies, provides ultra precision DC functions without requiring precise external components. Such functions are differential voltage to single-ended conversion, voltage inversion, voltage multiplication and division by 2, 3, 4, 5, etc. The LTC1043 can also be used for precise V-F and F-V circuits without trimming, and it is also a building block for switched capacitor filters, oscillators and modulators.

The LTC1043 is manufactured using Linear Technology's enhanced LTCMOS™ silicon gate process.

Features

Instrumentation Front End with 120dB CMRR

Precise, Charge-Balanced Switching

Operates from 3V to 18V

Internal or External Clock

Operates up to 5MHz Clock Rate

Low Power

Two Independent Sections with One Clock

Application

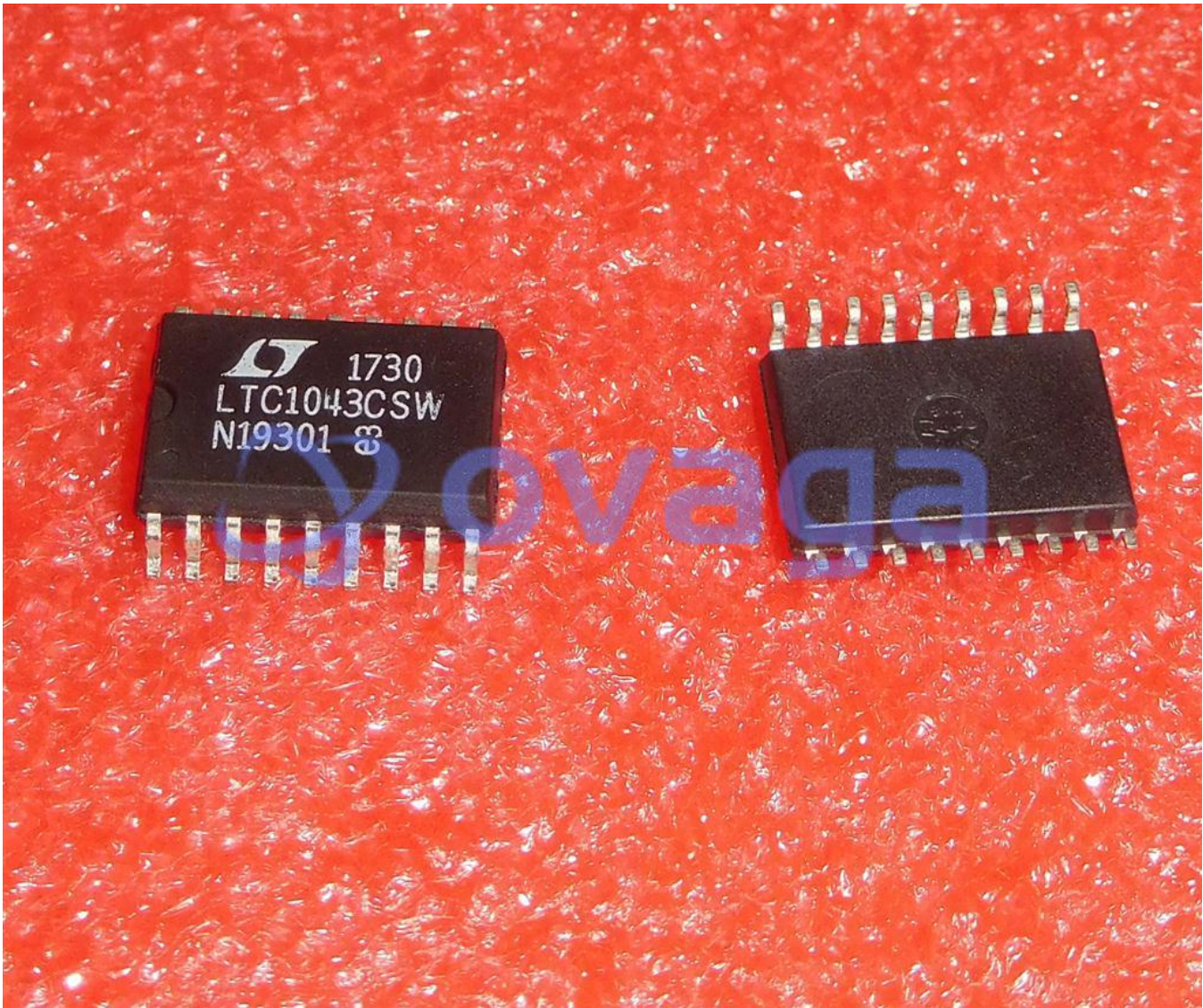
Precision Instrumentation Amplifiers

Ultra Precision Voltage Inverters, Multipliers and Dividers

V-F and F-V Converters

Sample-and-Hold

Switched Capacitor Filters



Related Products



[LT3763EFE](#)

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TSSOP28



[LT1038CK](#)

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TO-3



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC1966CMS8#PBF](#)

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MSOP-8P



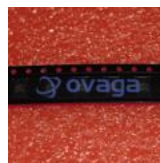
[LTC2990IMS#PBF](#)

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[LTM8045EY#PBF](#)

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BGA40



[LT4295IUFD#PBF](#)

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