

Charge Pump INV/STPUP/STPDN -1.5V to -12V/1.5V to 22.8V 45mA 8-Pin PDIP Tube



Images are for reference only

Manufacturer: [Renesas Technology Corp](#)

Package/Case: DIP-8

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

[Inquiry](#)

General Description

The MAX1044 and ICL7660 are monolithic, CMOS switched-capacitor voltage converters that invert, double, divide, or multiply a positive input voltage. They are pin compatible with the industry-standard ICL7660 and LTC1044. Operation is guaranteed from 1.5V to 10V with no external diode over the full temperature range. They deliver 10mA with a 0.5V output drop. The MAX1044 has a BOOST pin that raises the oscillator frequency above the audio band and reduces external capacitor size requirements. The MAX1044/ICL7660 combine low quiescent current and high efficiency. Oscillator control circuitry and four power MOSFET switches are included on-chip. Applications include generating a -5V supply from a +5V logic supply to power analog circuitry. For applications requiring more power, the MAX660 delivers up to 100mA with a voltage drop of less than 0.65V.

Key Features

Guaranteed Lower Max Supply Current for All Temperature Ranges

Wide Operating Voltage Range: 1.5V to 12V

100% Tested at 3V

Boost Pin (Pin 1) for Higher Switching Frequency

Guaranteed Minimum Power Efficiency of 96%

Improved Minimum Open Circuit Voltage Conversion Efficiency of 99%

Improved SCR Latchup Protection

Simple Conversion of +5V Logic Supply to $\pm 5V$ Supplies

Simple Voltage Multiplication

Easy to Use; Requires Only Two External Non-Critical Passive Components

Improved Direct Replacement for Industry Standard ICL7660 and Other Second Source Devices

Pb-Free Available (RoHS Compliant)

Application

Data Acquisition

EIA/TIA-232E and EIA/TIA-562 Power Supplies

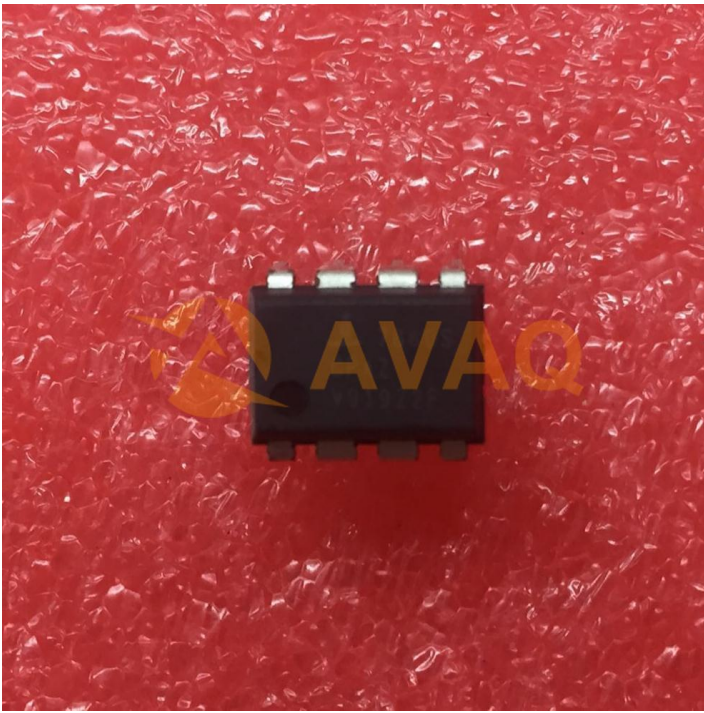
Handheld Instruments (PDAs, Palmtops)

Op-Amp Power Supplies

Panel Meters

Personal Communications Equipment

Portable Telephones



Recommended For You

ICL7660AIBA

Renesas Technology Corp

SOP8

ICL7660SIBAZ

Renesas Technology Corp

SOP8

ICL7660SIBAZT

Renesas Technology Corp

SOP8

ICL7660CBAZ

Renesas Technology Corp

SOP8

ICL7660AIBAZA-T

Renesas Technology Corp

SOP8

ICL7660CPA

Renesas Technology Corp

DIP-8

ICL7660SCBAZ-T

Renesas Technology Corp

SOP8

ICL7660SCPA

Renesas Technology Corp

DIP8

ICL7660CBA

Renesas Technology Corp

SOP-8

ICL7660CBAZ-T

Renesas Technology Corp

SOP8

ICL7660SCBA

Renesas Technology Corp

SOP8

ICL7660ACBA

Renesas Technology Corp

SOP-8

ICL7660ACBAZA-T

Renesas Technology Corp

SOP8

ICL7660ACPAZ

Renesas Technology Corp

DIP8

ICL7660ACBAZA

Renesas Technology Corp

SOP-8