
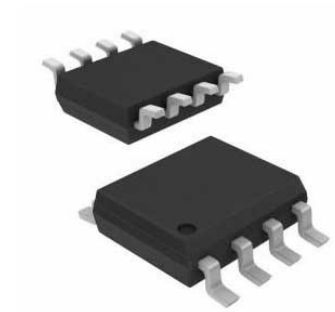


Charge Pump INV -1.5V to -12V 8-Pin SOIC N Tube

Manufacturer:	Microchip Technology, Inc
Package/Case:	SOP8
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The TC1044S is a pin-compatible upgrade to the Industry standard TC7660 charge pump voltage converter. It converts a +1.5V to +12V input to a corresponding -1.5V to -12V output using only two low cost capacitors, eliminating inductors and their associated cost, size and EMI. Added features include an extended supply range to 12V, and a frequency boost pin for higher operating frequency, allowing the use of smaller external capacitors. The on-board oscillator operates at a nominal frequency of 10kHz. Frequency is increased to 45kHz when pin 1 is connected to V+. Operation below 10kHz (for lower supply current applications) is possible by connecting an external capacitor from OSC to ground (with pin 1 open). The TC1044S is available in both 8-pin DIP and 8-pin small outline (SOIC) packages in commercial and extended temperature ranges.

Key Features

Converts +5V Logic Supply to ±5V System

Wide Input Voltage Range1.5V to 12V

Efficient Voltage Conversion99.9%

Excellent Power Efficiency98%

Low Power Consumption80uA @ VIN = 5V

Low Cost and Easy to Use

Only Two External Capacitors Required

RS-232 Negative Power Supply

Available in 8-Pin Small Outline (SOIC) and 8-Pin Plastic DIP Packages

Improved ESD ProtectionUp to 10kV

No External Diode Required for High Voltage Operation

Frequency Boost Raises FOSC to 45kHz

Recommended For You

TC7660COA

Microchip Technology, Inc
SOP8

TC54VC3002ECB713

Microchip Technology, Inc
SOT-23

TC4428ACOA

Microchip Technology, Inc
SOP8

TC429CPA

Microchip Technology, Inc
DIP8

TC4420EPA

Microchip Technology, Inc
DIP8

TC1232CPA

Microchip Technology, Inc
DIP8

TC1232COA

Microchip Technology, Inc
SOP-8

TC4427AEPA

Microchip Technology, Inc
DIP8

TC4421CAT

Microchip Technology, Inc
TO220-5

TC4420CPA

Microchip Technology, Inc
DIP8

TC4422EPA

Microchip Technology, Inc
DIP8

TC1232EOA

Microchip Technology, Inc
SOP-8

TC1240AECHIR

Microchip Technology, Inc
SOT23-6

TC4421CPA

Microchip Technology, Inc
DIP8

TC4420COA

Microchip Technology, Inc
SOP-8