
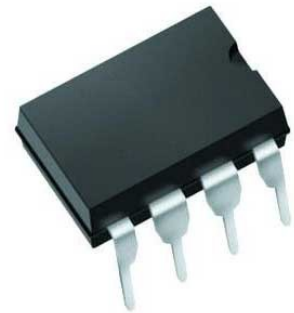


Charge Pump INV -1.5V to -12V 8-Pin PDIP Tube

Manufacturer:	Microchip Technology, Inc
Package/Case:	DIP8
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