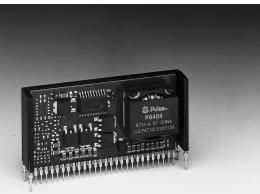
PT7748—12V

17 Amp "Current Booster" for PT7720 Series



SLTS051A

(Revised 6/30/2000)



The PT7748 is a high-performance 17 Amp "Current Booster" for the PT7720 Series housed in a 27-pin SIP package. Multiple PT7748 boosters will operate in parallel with the PT7720 Series boosting output current in increments of 17A. Combinations of PT7720 and PT7748 current boosters can easily supply enough power for virtually any multiple megaprocessor application.

A PT7748 current booster adds a

Pin-Out Information

also has the same mechanical dimensions and package options as the PT7720 series.

nation with the PT7720 series and is not a stand-alone product. Therefore please refer the PT7720 series data sheet for performance specifications. The PT7748

parallel output stage driven by the

noise solution.

PT7720. As such, the system runs in

perfect sychronization providing a low

The PT7748 only operates in combi-

Features

- 17A Current Boost
- Automatically Tracks Vout of PT7720
- High Efficiency
- Input Voltage Range: 11V to 14V
- Synchronized with PT7720
- 27-pin SIP Package
- Run up to 4 in Parallel 85 Amps

Pin	Function	Pin	Function
1	Do not connect	14	GND
2	Do not connect	15	GND
3	Do not connect	16	GND
4	Do not connect	17	GND
5	Do not connect	18	GND
6	Do not connect	19	GND
7	Vin	20	Vout
8	Vin	21	Vout
9	Vin	22	Vout
10	Vin	23	Vout
11	Vin	24	Vout
12	Do not connect	25	V _{out}
13	GND	26	Do not connect
		27	Sync In

Ordering Information PT7748

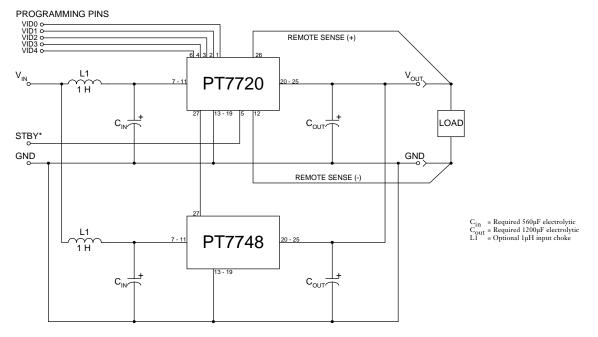
PT Series Suffix (PT1234X)

Case/Pin

Configuration	
Vertical Through-Hole	Ν
Horizontal Through-Hole	Α
Horizontal Surface Mount	С

(For dimensions and PC board layout, see Package Styles 1000 and 1010.)

Standard Application



Output Capacitors: The PT7720 series requires a minimum output capacitance of 1200µF for proper operation. Do not use Oscon type capacitors. The maximum allowable output capacitance Is (57,000 + Vout)µF, or 15,000µF, whichever is less.

Input Filter: An input inductor is optional for most applications. The input inductor must be sized to bandle 7ADC with a typical value of 1µH. The input capacitance must be rated for a minimum of 4.0 Arms of ripple current when operated at maximum output current and maximum output voltage. Contact an applications engineer for input capacitor selection for applications at other output voltages and output currents.

