



Distributor of Texas Instruments: Excellent Integrated System Limited

Datasheet of PT4498A - BOOSTER(PT4484) 20A 48VIN HRZ

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Texas Instruments](#)
[PT4498A](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

PT4498—48V

20 Amp “Current Booster” for PT4484 DC/DC Converter

Power Trends Products from Texas Instruments



SLTS110

(Revised 10/31/2000)



- 20A Current Boost (Boosts PT4484 to 40A)
- Tracks V_{out} of PT4484
- Synchronized Operation
- High Efficiency
- Input Voltage: 36V to 75V
- 26-pin Copper Case Package

The PT4498 is a new high-performance 20A “Current Booster” for use with the PT4484 Excalibur™ DC/DC converter. The PT4498 adds a parallel output stage to the PT4484, allowing both to operate in perfect synchronization.

The PT4498 only operates with a PT4484 and is not a stand-alone product. Refer the PT4484 data sheet for the performance specifications. The booster uses the same 26-pin case and has the package options as the companion regulator.

Patent pending on package assembly

PT Series Suffix (PT1234X)

Case/Pin Configuration	
Vertical Through-Hole	N
Horizontal Through-Hole	A
Horizontal Surface Mount	C

Ordering Information

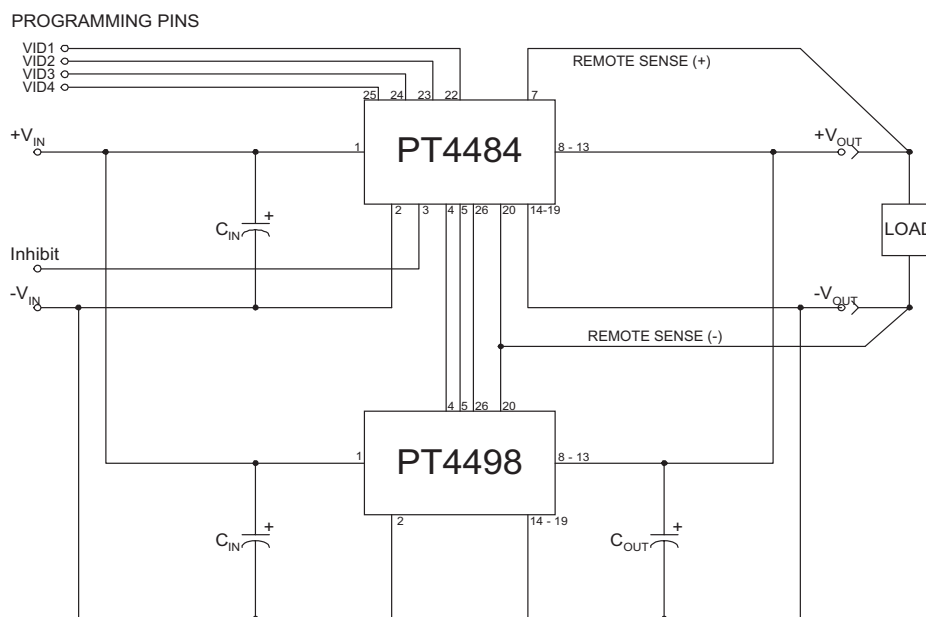
PT4498□

(For dimensions and PC Board layout, see Package Styles 1200, 1210 and 1215.)

Pin-Out Information

Pin	Function	Pin	Function	Pin	Function
1	+V _{in}	10	+V _{out}	19	-V _{out}
2	-V _{in}	11	+V _{out}	20	-V _{sense}
3	N/C	12	+V _{out}	21	N/C
4	V _r	13	+V _{out}	22	N/C
5	V _a	14	-V _{out}	23	N/C
6	N/C	15	-V _{out}	24	N/C
7	N/C	16	-V _{out}	25	N/C
8	+V _{out}	17	-V _{out}	26	DRV
9	+V _{out}	18	-V _{out}		

Standard Application



Input Capacitors: Although not necessary for stable operation, C_{in} will reduce input ripple. C_{in} = 33μF is suggested.

Output Capacitors: A minimum of 330μF per PT4498 booster module is required for proper operation. Increasing C_{out} will reduce transients due to large and/or fast load steps.

IMPORTANT NOTICE

Texas Instruments and its subsidiaries (TI) reserve the right to make changes to their products or to discontinue any product or service without notice, and advise customers to obtain the latest version of relevant information to verify, before placing orders, that information being relied on is current and complete. All products are sold subject to the terms and conditions of sale supplied at the time of order acknowledgment, including those pertaining to warranty, patent infringement, and limitation of liability.

TI warrants performance of its semiconductor products to the specifications applicable at the time of sale in accordance with TI's standard warranty. Testing and other quality control techniques are utilized to the extent TI deems necessary to support this warranty. Specific testing of all parameters of each device is not necessarily performed, except those mandated by government requirements.

Customers are responsible for their applications using TI components.

In order to minimize risks associated with the customer's applications, adequate design and operating safeguards must be provided by the customer to minimize inherent or procedural hazards.

TI assumes no liability for applications assistance or customer product design. TI does not warrant or represent that any license, either express or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right of TI covering or relating to any combination, machine, or process in which such semiconductor products or services might be or are used. TI's publication of information regarding any third party's products or services does not constitute TI's approval, warranty or endorsement thereof.