

PT4499—48V

30 Amp "Current Booster" for
PT4482 DC/DC Converter

Power Trends Products
from Texas Instruments



SLTS066A

(Revised 6/30/2000)



- 30A Current Boost
(Boosts PT4482 to 60A)
- Tracks V_{out} of PT4482
- Synchronized Operation
- High Efficiency
- Input Voltage: 36V to 75V
- 26-pin Copper Case Package

The PT4499 is a new high-performance 30A "Current Booster" for use with the PT4482 Excalibur™ DC/DC converter. The PT4499 adds a parallel output stage to the PT4482, allowing both to operate in perfect synchronization.

The PT4499 only operates with a PT4482 and is not a stand-alone product. Refer the PT4482 data sheet for the performance specifications. The PT4499 is housed in the same 26-pin case and has the package options as the PT4482.

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

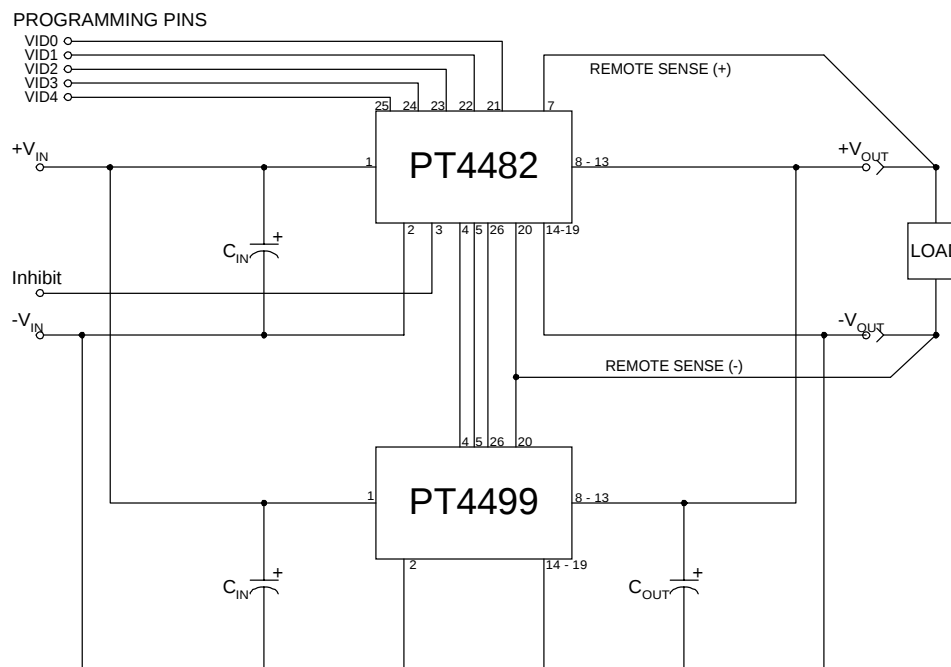
PT4499□

(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_f	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. $C_{in} = 33\mu F$ is suggested.

Output Capacitors: A minimum of $330\mu F$ per PT4499 booster module is required for proper operation. Increasing C_{out} will reduce transients due to large and/or fast load steps.

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