PT4499—48V

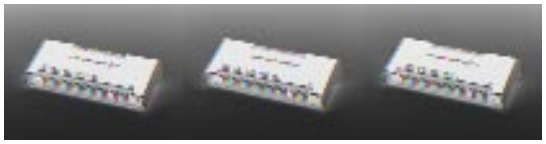
30 Amp "Current Booster" for PT4482 DC/DC Converter

EXCALIBUR

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 sychronization.

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.)

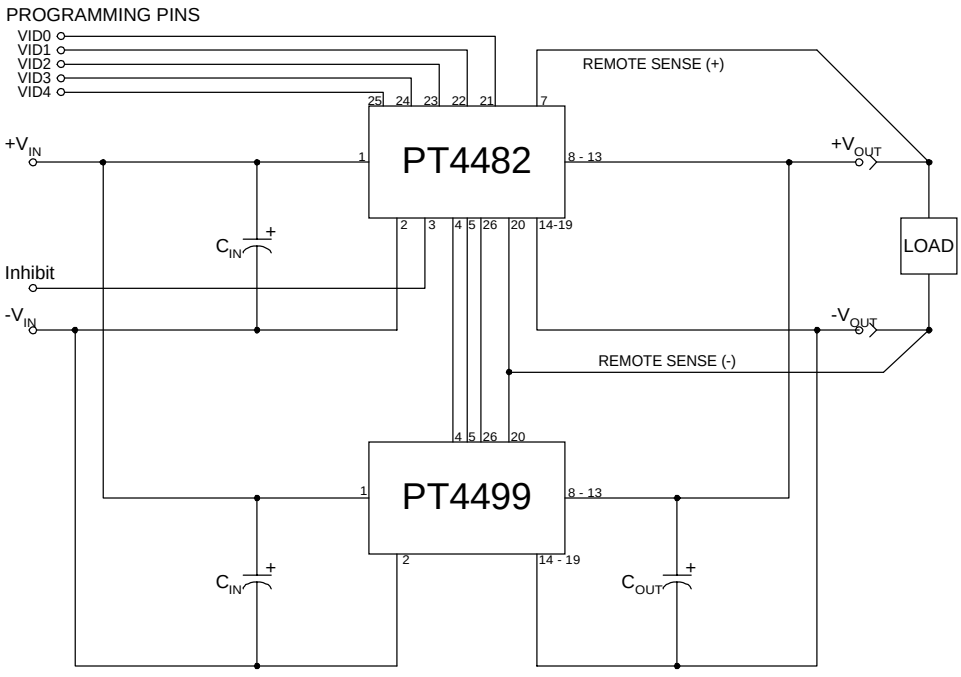
Pin-Out Information

Pin	Function
1	$+V_{in}$
2	$-V_{in}$
3	N/C
4	V_r
5	V_a
6	N/C
7	N/C
8	$+V_{out}$
9	$+V_{out}$

Pin	Function
10	$+V_{out}$
11	$+V_{out}$
12	$+V_{out}$
13	$+V_{out}$
14	$-V_{out}$
15	$-V_{out}$
16	$-V_{out}$
17	$-V_{out}$
18	$-V_{out}$

Pin	Function
19	$-V_{out}$
20	$-V_{sense}$
21	N/C
22	N/C
23	N/C
24	N/C
25	N/C
26	DRV

Standard Application



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

Output Capacitors: A minimum of 330µF per PT4499 booster module is required for proper operation. Increasing Cout will reduce transients due to large and/or fast load steps.

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