

PT4498—48V

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



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

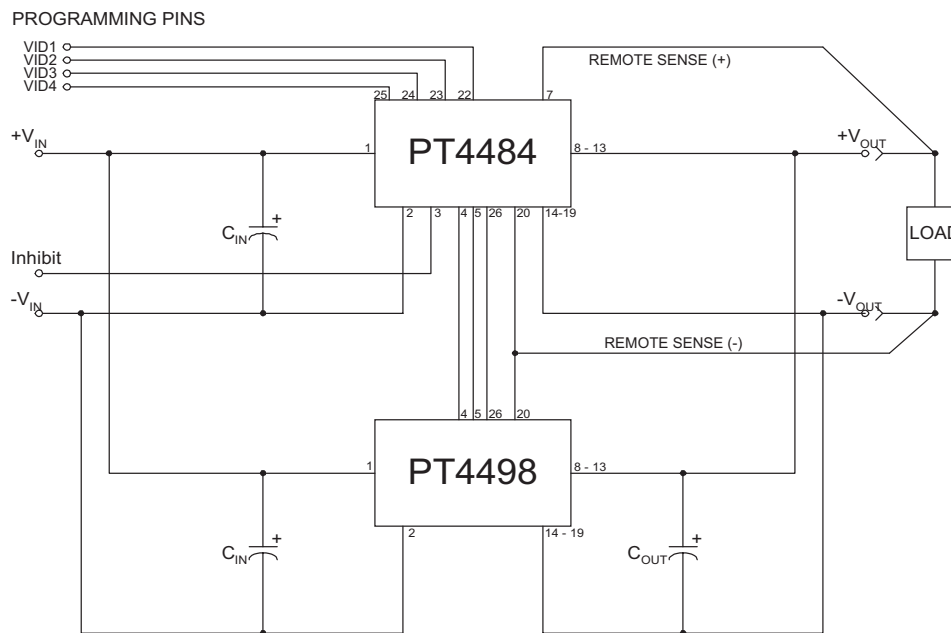
PT4498□

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

Output Capacitors: A minimum of $330\mu F$ per PT4498 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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