



PP100-500-100

100-500 MHz – 100W

Solid State Broadband High Power Pallet Amplifier

The PP100-500-100 is a 100W pallet amplifier for the 100-500 MHz band. Superior performance is provided offering high gain, efficiency and power in a small pallet footprint using advanced broadband RF matching networks, and the finest Gold LDMOS/MOSFET transistors available on the market today. Matched for 50 ohms input and output, Thermal Tracking bias allows for the PP100-500-100 to operate Class AB providing 100 watts PEP making this the natural Choice for your high power linear broadband communications applications.



Specifications

(Vsupply=+28V Vdc, Idq=1.50A, TBase=25°C)

Parameter	Min.	Typ	Max.	Unit
Frequency	100		500	MHz
Pout P1dB	100	120		Watts
Gain	23	25		dB
Delta Gain		+1.5		dB
Power In For 25W Carrier	4.8	75		mW
Drain Current		8.5		Amps
Efficiency	30	42		%
Input VSWR		1.3:1	1.5:1	
2 nd Harmonic		-20		dBc
3 rd Harmonic		-15		dBc
Distortion 80% modulation, 1KHz, 30W circuit		3%	5%	
Size	5.0" x 2.15" x 1.5"			

Features

- 100 Watts Class AB
- 50 ohms input/output
- Thermal tracking Bias
- 100 Watts PEP, class A/AB
- No circuit tuning or RF assembly
- Amplifier disable input

Maximum Ratings

Parameter	Value
Input Voltage	+34 VDC
Bias Current	1.75 Amp
Drain Current	12.0 Amp
Load Mismatch All Phase angles,	5:1
Baseplate Temp	+60°C
Storage Temp	-40° - +105°C

PMT RF Products • 3107 N. Deer Run Road, Suite 20, Carson City, Nevada 89701 USA.

Tel: +1.775.883.1122 e-mail: sales@pmtrf.com web: <http://www.pmtrf.com>

Specifications contained herein are subject to change without notice.

PMT assumes no liability for the use of this information.

© PMT 2008



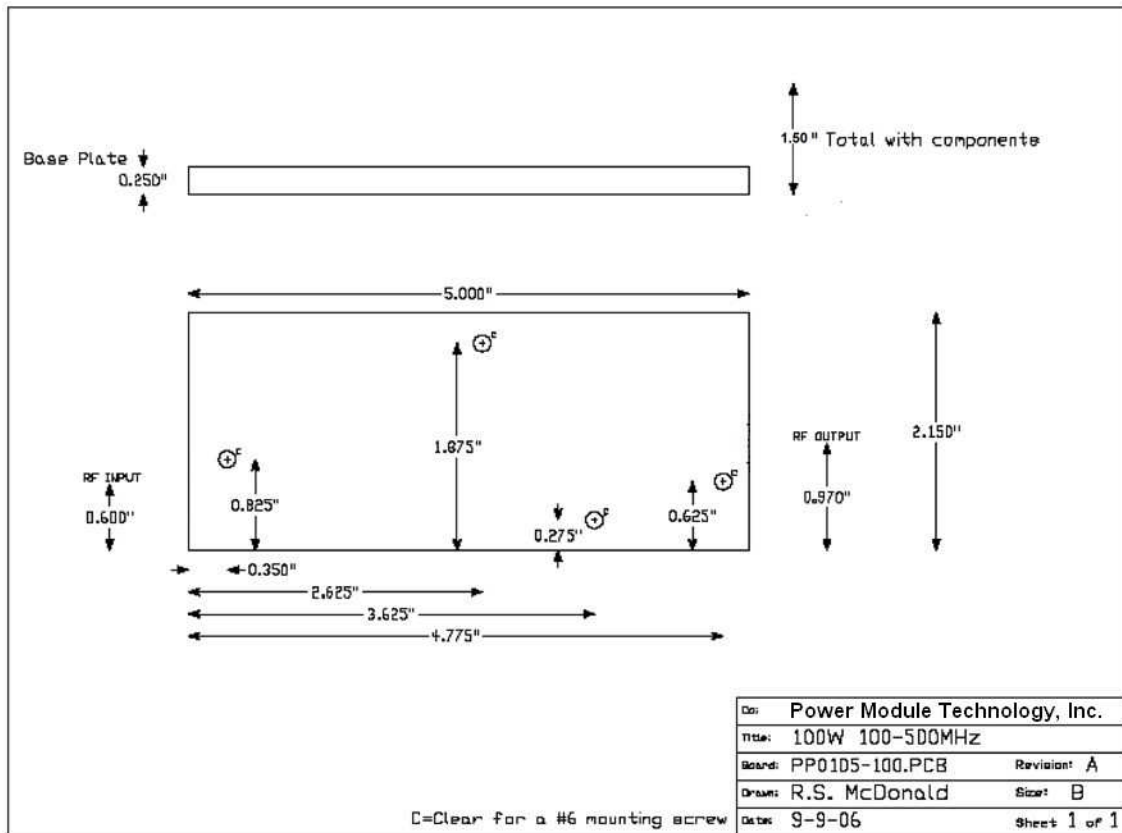
PP100-500-100

100-500 MHz – 100W

Solid State Broadband

High Power Pallet Amplifier

Mechanical Layout



PMT RF Products • 3107 N. Deer Run Road, Suite 20, Carson City, Nevada 89701 USA.

Tel: +1.775.883.1122 e-mail: sales@pmtrf.com web: <http://www.pmtrf.com>

Specifications contained herein are subject to change without notice.

PMT assumes no liability for the use of this information.

© PMT 2008



PP100-500-100
100-500 MHz – 100W
Solid State Broadband
High Power Pallet Amplifier

Revision History:	2/1/07	Preliminary	Data Sheet
Previous Versions:	-		
Page	Subjects (major changes since last revision)		
Rev. 2	Product Name Change		3/19/09

We Listen to your comments
If there is any information within this document that you feel is wrong, unclear or Missing, please give us your feedback as it will help us to continuously improve The quality of this document. Please send your suggestions (including a reference To this document) to:

Bob.Todd@PMTRF.com

To request other information please call 1-775-883-1122

Attention please:

The information herein is given to describe certain components and shall not be Considered as a guarantee of characteristics. Terms of delivery and rights to Technical change reserved.

For further information on technology, delivery terms, conditions and prices, please Contact the sales department at PMT headquarters at 1-775-883-1122

PMT RF Products • 3107 N. Deer Run Road, Suite 20, Carson City, Nevada 89701 USA.

Tel: +1.775.883.1122 e-mail: sales@pmtrf.com web: <http://www.pmtrf.com>

Specifications contained herein are subject to change without notice.

PMT assumes no liability for the use of this information.

© PMT 2008