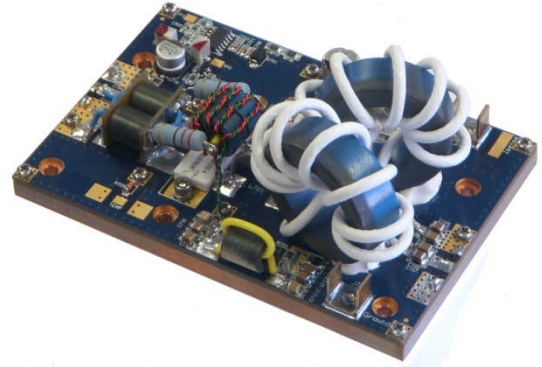




PP10-250-350
10-250 MHz – 350W
Solid State Broadband
High Power Pallet Amplifier
Preliminary

The PP10-250-350 is a 350W pallet amplifier for the 10-250 MHz HF/VHF band. Superior performance is provided offering high gain, efficiency and power in a small pallet footprint using advanced broadband RF matching networks, and the latest generation LDMOS power transistors available. Matched for 50 ohms input and output, thermal tracking bias allows for the PP10-250-350 to operate Class AB providing 350W CW from 10-150MHz and 350W pulsed ($\leq 50\%$ duty cycle) from 150 to 150MHz. making this the natural choice for your high power broadband application in the 10- 250 MHz HF/VHF band.



Operating Specifications				
(Pout 350W, Vsupply=+50V _{DC} , I _{dq} =0.8A 10% duty cycle, Base=25°C)				
Parameter	Min.	Typ.	Max.	Units
Frequency	10		250	MHz
Pout CW 10-150MHz	300	350		Watts
Pout pulsed @ 50% duty cycle 150-250MHz		350		Watts
Gain	21	23		dB
Power In		1.8		Watts
Drain Current		12.5		Amps
Efficiency		58		%
Input R/L		-16		dB
Operating Voltage	46	48	50	Volt
2 nd Harmonic		-40		dBc
3 rd Harmonic		-12		dBc
Dimensions	3.0" x 5.5" x 2.3" 76mm x 140mm x 58m			

Features

- 350 W CW, 10-150MHz
- 350 W pulsed 150-250MHz
- Latest generation LDMOS transistors for maximum performance & reliability
- 50 ohms input/output
- Thermal tracking bias
- No circuit tuning or RF assembly

Maximum Ratings	
Parameter	Value
Input Voltage	+50 VDC
Bias Current	2.5 Amps
Drain Current	16.0 Amps
Load Mismatch	3:1
<small>All Phase angles, current limited to 16.0A for 3 sec.</small>	
Baseplate Temp	+60°C
Storage Temp	-40° - +105°C

Power Module Technology • 3107 N. Deer Run Road, Suite 20, Carson City, Nevada 89701 USA.

Tel: +1.775.883.1122 [e-mail: sales@pmtrf.com](mailto:sales@pmtrf.com) web: <http://www.pmtrf.com>

Specifications contained herein are subject to change without notice.

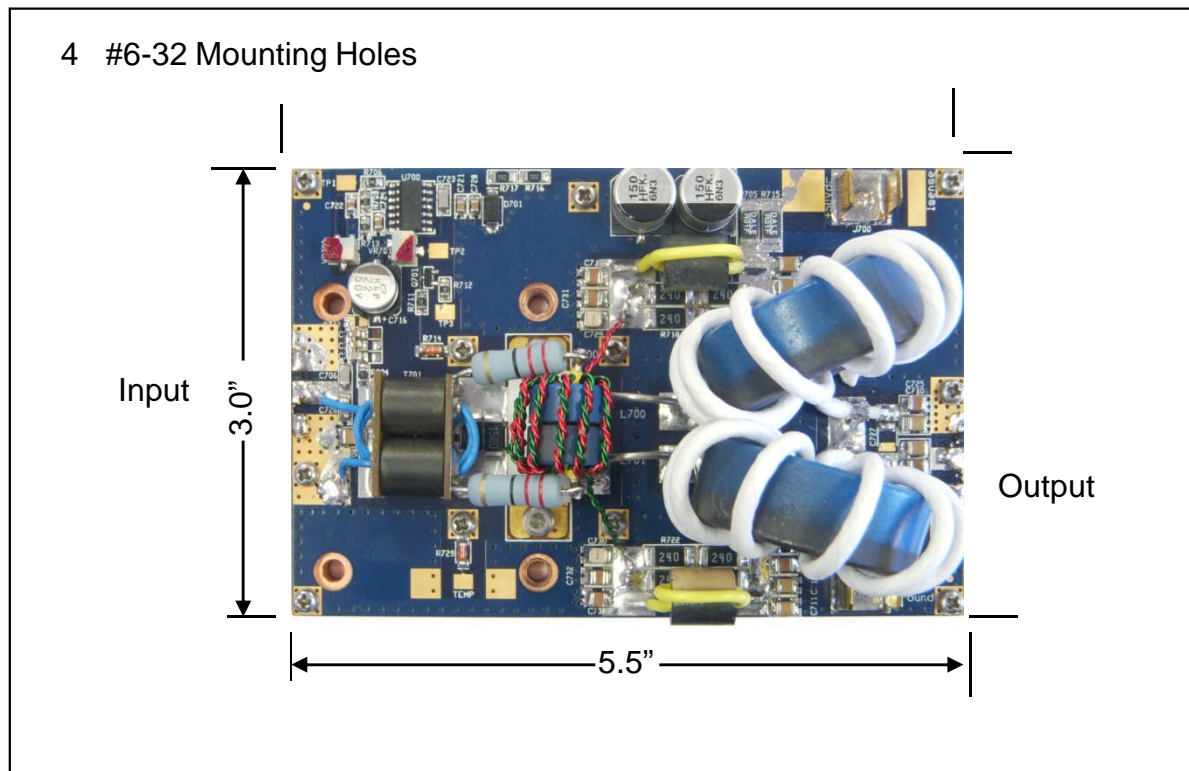
PMT, Inc assumes no liability for the use of this information.

© PMT 2008



PP10-250-350
10-250 MHz – 350W
Solid State Broadband
High Power Palnet Amplifier
Preliminary

Reference Circuit



Reference circuit size (not to scale)

Note:

Operation above 100MHz requires that sufficient airflow be directed over the component side of this amplifier such that the output transformer and balun do not exceed 100°C.

Power Module Technology • 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, Inc assumes no liability for the use of this information.

© PMT 2008



PP10-250-350
10-250 MHz – 350W
Solid State Broadband
High Power Pallet Amplifier
Preliminary

Revision History:

01/25/10

Data Sheet

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

Power Module Technology • 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, Inc assumes no liability for the use of this information.

© PMT 2008