



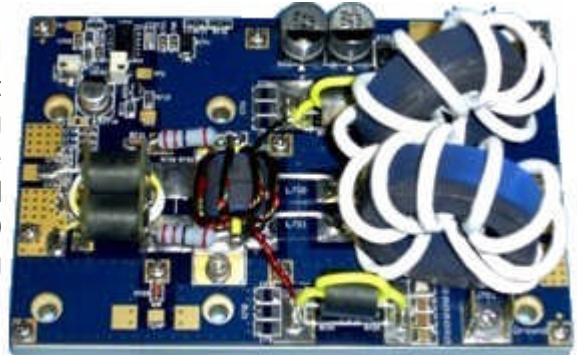
PP1-10-300

1-10 MHz – 300W PEP

Solid State Broadband

High Power Pallet Amplifier

The PP1-10-300 is a 300W PEP pallet amplifier for the 1-10 MHz HF 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 MOSFET transistors available on the market today. Matched for 50 ohms input and output, thermal tracking bias allows for the PP1-10-300 to operate Class AB providing 300 watts PEP making this the natural choice for your high power broadband application in the 1-10 MHz HF band.



Specifications				
(Vsupply=+50V Vdc, Idq=0.5A (TBD), TBase=25°C)				
Parameter	Min.	Typ	Max.	Unit
Frequency	01		10	MHz
Pout PEP	300	350		Watts PEP
Power In @ 300W output		4.8	7.5	Watts. PEP
Gain	16	18		dB
Drain Current @ 200 W AVG.		9		Amps
Efficiency @ 200 W AVG.	40	45		%
Input VSWR		1.5:1	1.8:1	
Op. Voltage	48	50		Volt
2 nd Harmonic		-25		dBc
3 rd Harmonic		-12		dBc
IMD ₃ , 2 Tone Δ F = 1.0 MHz		-30	-26	dB
Physical Dimensions	4.5"x3"x1.5"			

Features

- 300 Watts PEP, Class AB
- 200 Watts Average, Class AB
- 50 ohms input/output
- Thermal tracking Bias
- No circuit tuning or RF assembly

Maximum Ratings	
Parameter	Value
Input Voltage	+52 VDC
Bias Current	3.0 Amp
Drain Current	13.0 Amp
Load Mismatch	3:1
Current Limited to 13.0A for 3 sec.	
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 web: <http://www.pmtrf.com>

Specifications contained herein are subject to change without notice.

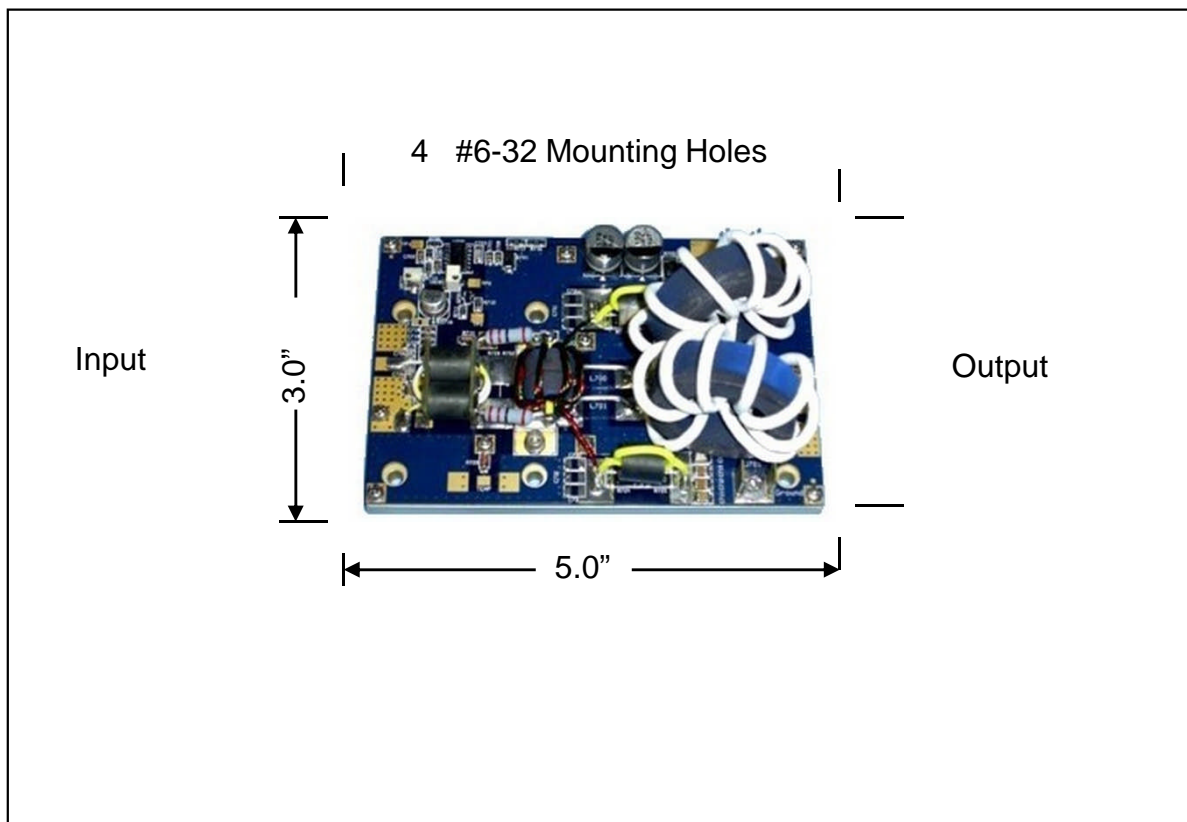
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Reference Circuit



Reference circuit size (not to scale)

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Revision History:

09/14/09

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

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