

PP1.5-30-300

1.5-30MHz – 300W

Solid State High Power Pallet Amplifier

The PP1.5-30-300 is a 300W PEP pallet amplifier for the 1.5-30MHz 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 PP1.5-30-300 to operate Class AB providing 300 watts PEP making this the natural choice for your high power broadband application.



Specifications

(Vsupply=+50V Vdc, Idq=0.2A, TBase=25°C)

Parameter	Min.	Typ	Max.	Unit
Frequency	1.5		30	MHz
Pout PEP	300	350		Watts
Power In		4.8	7.5	Watts
Gain	16	18		dB
Drain Current		11		Amps
Efficiency	40	55		%
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 CW
- 50 ohms input/output
- Thermal tracking Bias
- No circuit tuning or RF assembly

Maximum Ratings

Parameter	Value
Input Voltage	+53 VDC
Bias Current	3.0 Amp
Drain Current	13.0 Amp
Load Mismatch	3:1
All Phase angles, current limited to 13.0A	
Baseplate Temp	+60°C
Storage Temp	-40° - +105°C

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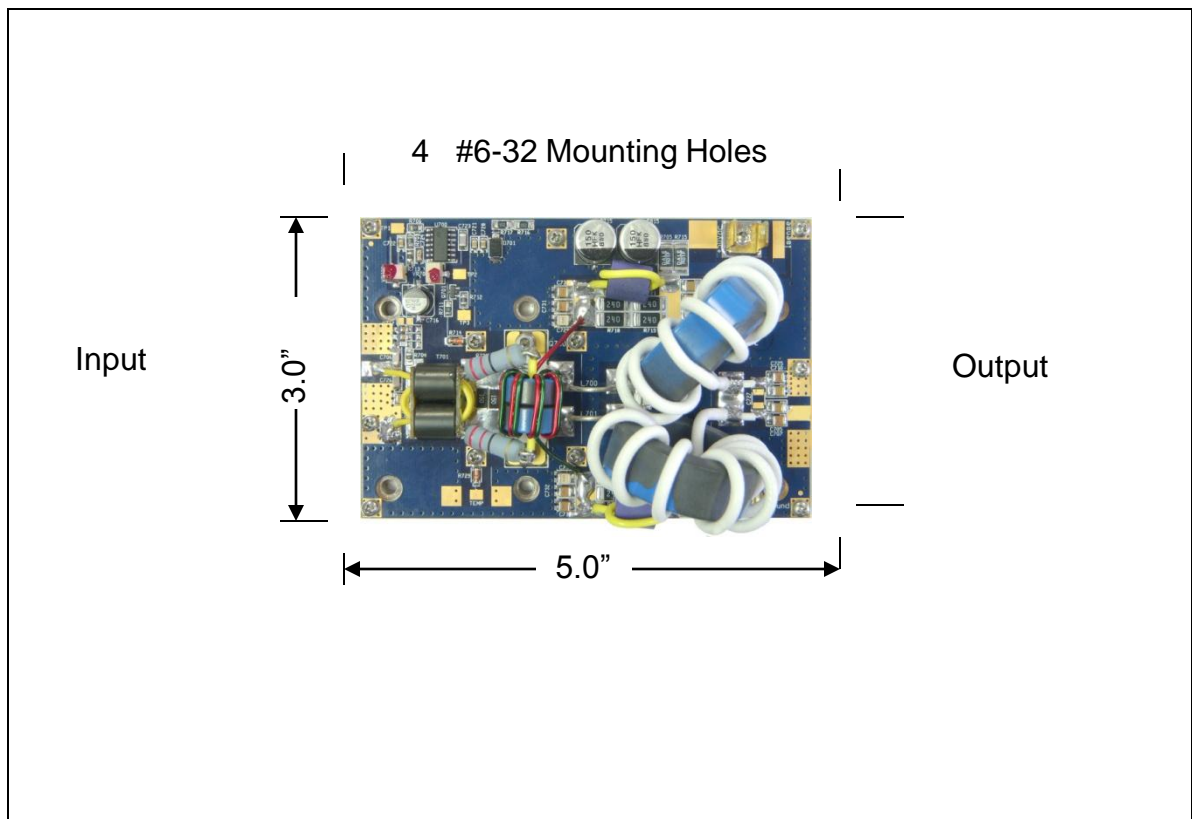
Tel: +1.775.883.1122 e-mail: sales@pmtrf.com web: <http://www.pmtrf.com>

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Reference Circuit



Reference circuit size (not to scale)

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Revision History:	10/15/07	Data Sheet
Rev. 1	10/21/08 Clarified IMD3, Changed input voltage max.	
Rev. 2	Model # change and photo update	
Rev. 3	Extended the frequency from 2 to 1.5MHz	

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:

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

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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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