



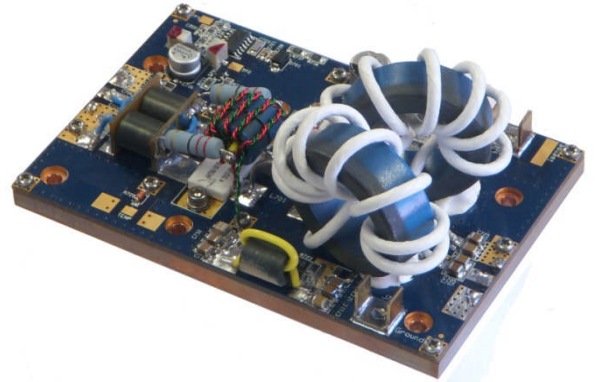
# PP2-55-300

## 2-55 MHz – 300W PEP

### Solid State Broadband

### High Power Pallet Amplifier

The PP2-55-300 is a 300W PEP pallet amplifier for the 2-55 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 finest MOSFET transistors available on the market today. Matched for 50 ohms input and output, thermal tracking bias allows for the PP2-55-300 to operate Class AB providing 300 watts PEP making this the natural choice for your high power broadband application in the 2-55 MHz HF/VHF band.



<b>Specifications</b> (Vsupply=+50V Vdc, Idq=1.0A, TBase=25°C)				
Parameter	Min	Typ	Max.	Unit
Frequency	2		55	MHz
Pout PEP	300	350		Watts
Pout CW			200	Watts
Gain	16	17		dB
Power In		4.8	7.5	Watts
Drain Current		11	13	Amps
Efficiency	46	55		%
Input VSWR		1.5:1	1.8:1	
Op Voltage	48	50		Volt
2 <sup>nd</sup> Harmonic		-40	-20	dBc
3 <sup>rd</sup> Harmonic		-18	-12	dBc
IMD <sub>3</sub> , 2 Tone		-26	-20	dB
Physical Dimensions	3.0"x5.0"x2.0"			

## Features

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

<b>Maximum Ratings</b>	
Parameter	Value
Input Voltage	+53 VDC
Bias Current	3.0 Amp
Drain Current	13.0 Amp
Load Mismatch	3:1
<small>All Phase angles, current limited to 13.0 A for 3 seconds</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.

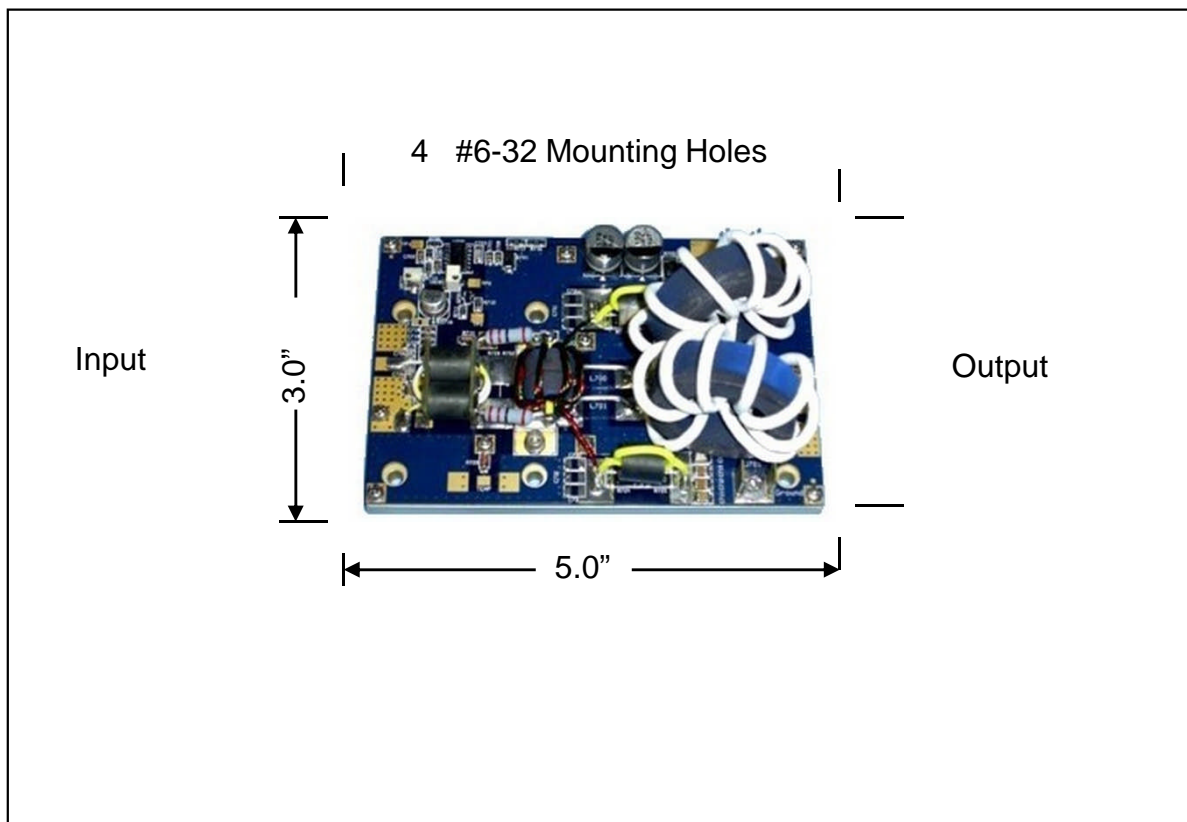
PMT assumes no liability for the use of this information.

© PMT 2008



**PP2-55-300**  
**2-55 MHz – 300W PEP**  
**Solid State Broadband**  
**High Power Pallet Amplifier**

Reference Circuit



Reference circuit size (not to scale)

**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 assumes no liability for the use of this information.

© PMT 2008



**PP2-55-300**  
**2-55 MHz – 300W PEP**  
**Solid State Broadband**  
**High Power Pallet Amplifier**

Revision History:  
Rev. 1

12/31/07  
Product Name Change

Data Sheet  
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](mailto: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](mailto: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