



PP225-400-130 225-400 MHz – 130W Solid State Broadband High Power Pallet Amplifier

The PP225-400-130 is a 130W pallet amplifier for the 225-400 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 PP225-400-130 to operate Class A/AB providing 130 watts and 33 watts carrier power making this the natural choice for your high power linear broadband communications applications.



Specifications (Vsupply=+28Vdc, Idq=1.5A, 225-400MHz)				
Parameter	Min	Typ.	Max.	Unit
Frequency	225		400	MHz
Pout, P1dB	130			Watts
Gain	24	26		dB
Gain Flatness			+/- 1.5	dB
Power In		327		mW
Drain Current		10		Amps
Efficiency	40	46		%
Input VSWR		1.4:1	1.7:1	
2 nd Harmonic		-35		dBc
3 rd Harmonic		-20		dBc
Size	5.0" x 2.15" x 1.5"			

Features

- 130 Watts Class AB
- 33 Watts Carrier Power
- 50 ohms input/output
- Thermal tracking Bias
- No circuit tuning or RF assembly
- Amplifier disable input

Maximum Ratings	
Parameter	Value
Max. Oper. Voltage	+32 Volts
Stable Op. Volt.	+26 to +32 Vdc
Bias Current - Q1	1.0 Amp
Bias Current - Q2	2.0 Amp
Drain Current	12.0 Amp
Load Mismatch Survival	5:1 <small>all phase angles, current limited to 12A for 3 sec. max.</small>
Storage Temp.	-40 to +105 Deg. C
Maximum Operating Base Plate Temp.	+60 Deg. C

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Specifications contained herein are subject to change without notice.

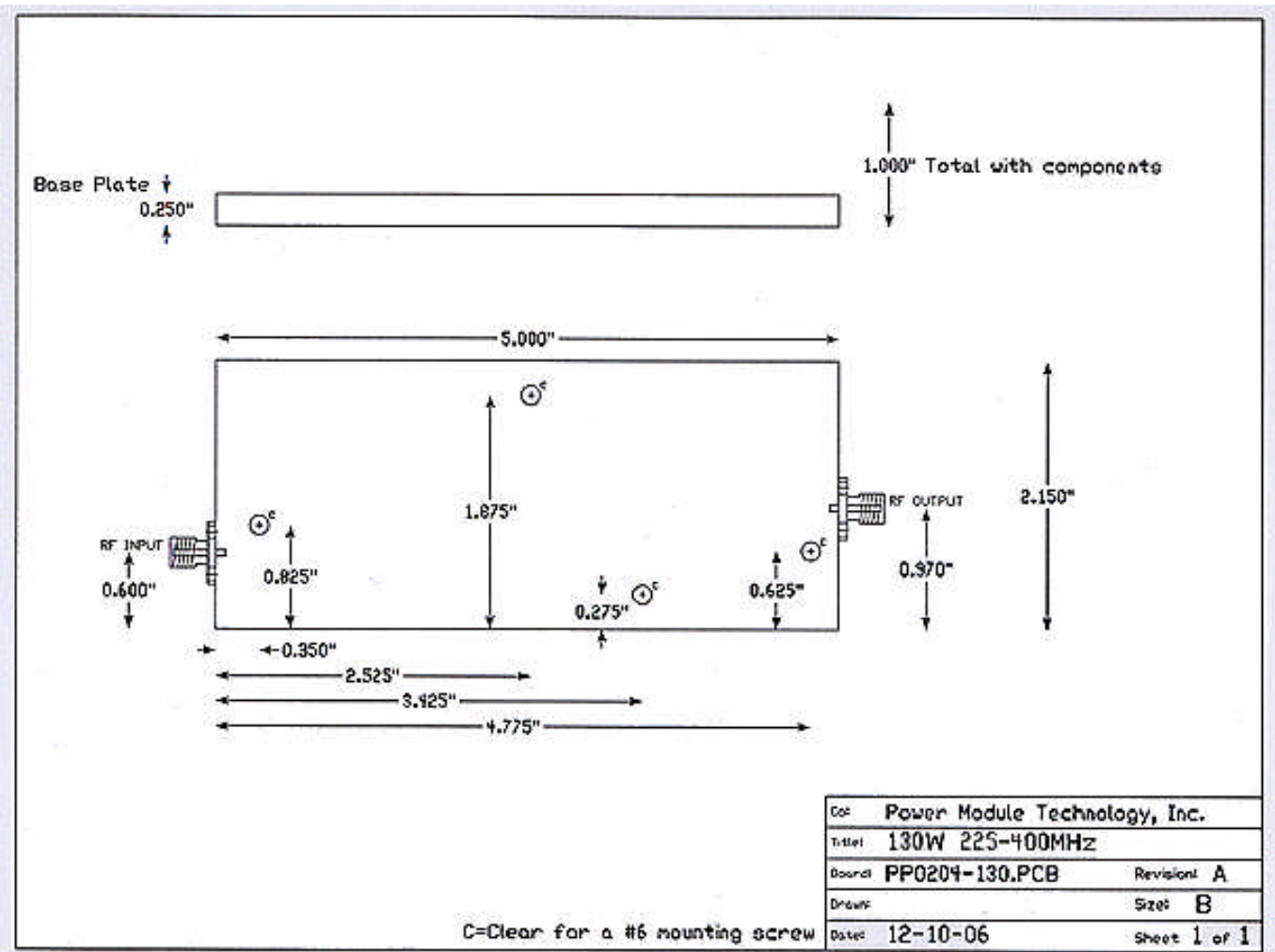
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Mechanical Layout



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Revision History: 08-20-07 - Data Sheet
Previous Versions: 01-15-06 - Preliminary Data Sheet
Page 1
Subjects (major changes since last revision) – Increased gain
Rev. 2 Product Name Change 3/19/09
Rev. 3 07/02/10 – Reduced Idq, improved gain flatness, 2nd
harmonic, & distortion, reduced max. voltage and current

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

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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