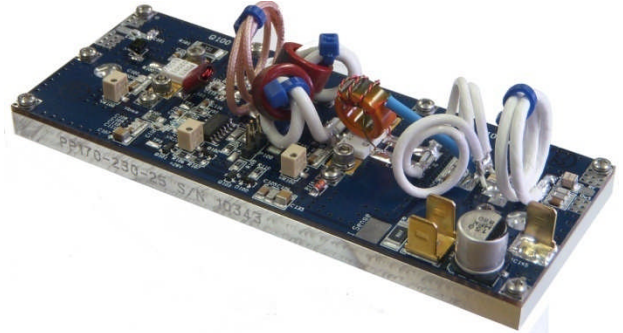




PP170-230-25
170-230 MHz – 25W
Solid State Broadband
High Power Pallet Amplifier

The PP170-230-25 is a 25W pallet amplifier for the 170-230 MHz band. Superior performances provided offering high gain, efficiency and power in a small pallet footprint using advanced broadband RF matching networks, and the finest Gold MOSFET transistors available on the market today. Matched for 50 ohms input and output, Thermal Tracking bias allows for the PP170-230-25 to operate Class A providing 25 watts linear output power, making this the natural Choice for your high power linear broadcast communications applications.



Specifications (Vsupply=+28V Vdc, Idq=3.25A, TBase=25°C) , Pout = 25W

Parameter	Min.	Typ	Max.	Unit
Frequency	170		230	MHz
Pout P1dB		50		Watts
Gain	34	36		dB
Pout Linear	25			Watts
Power In		6.3		dBm
Drain Current		3.5		Amps
Input VSWR		1.3:1	1.8:1	
Efficiency (50W)		45		%
2 nd Harmonic		-35		dBc
3 rd Harmonic		-35		dBc
Baseplate Operating Temp.	0		+60	°C
Size	2.0" x 5.0" x 1.0"			

Features

- 25 Watts Class A, Ultra Linear
- 50 ohms input/output
- Thermal tracking Bias
- 50 Watts PEP, P1dB
- No circuit tuning or RF assembly
- Amplifier disable input

Maximum Ratings

Parameter	Value
Input Voltage	+32 VDC
Bias Current	3.25 Amp
Drain Current	5.0 Amp
Load Mismatch	3:1
<small>All Phase angles, current limited to 5.0A, 3 sec. max.</small>	
Baseplate Temp	+60°C
Storage Temp	-40° - +105°C

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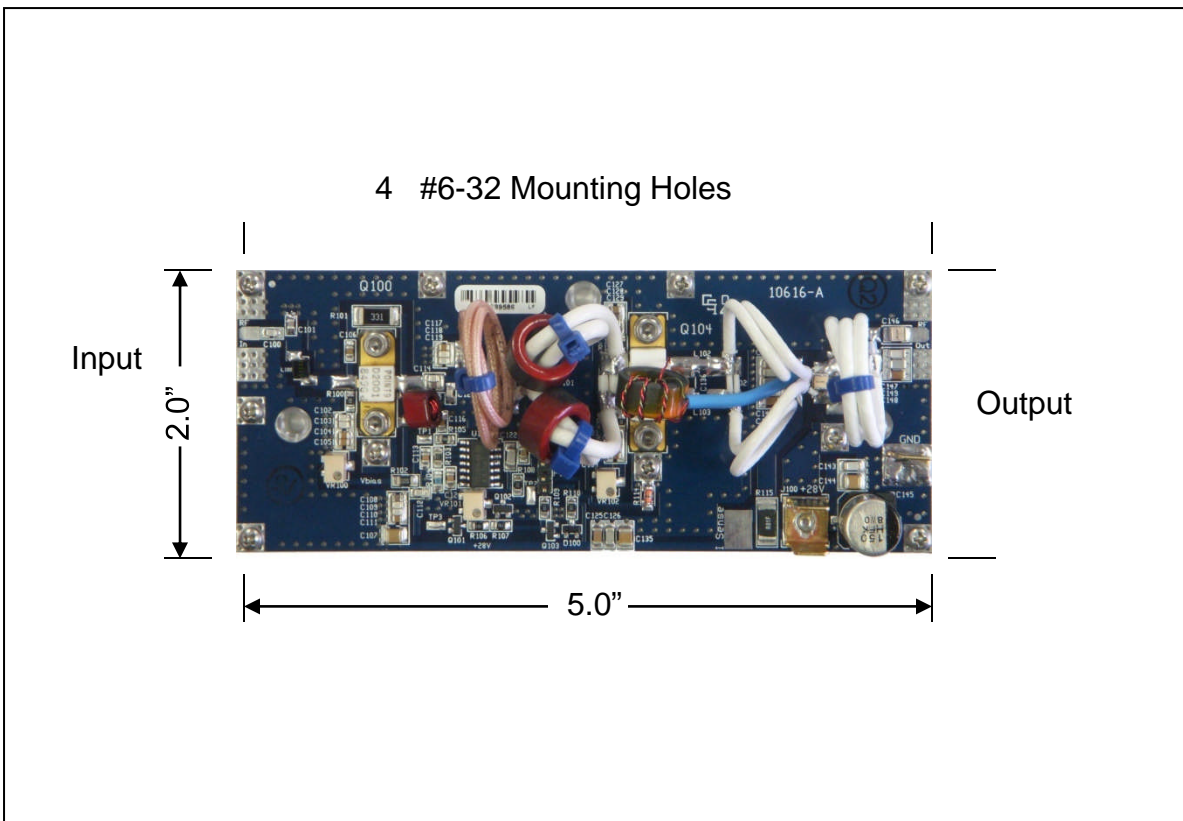
Tel: +1.775.883.1122 e-mail: sales@pmtrf.com web: <http://www.pmtrf.com>

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Reference Circuit



Reference circuit size (not to scale)

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Revision History:	2/1/07	Data Sheet
Previous Versions:	10/1/06	Preliminary Data Sheet
Page	Subjects (major changes since last revision)	
Rev. 2	Product Name Change	3/9/09
Rev. 3	Decreased P1db, increased gain, improved harmonics	8/28/09
Rev. 4	Increased P1dB, added Gain Min. reduced Power In, Improved Eff. Improved 2 nd & 3 rd Harmonics	

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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