



# PP170-230-800

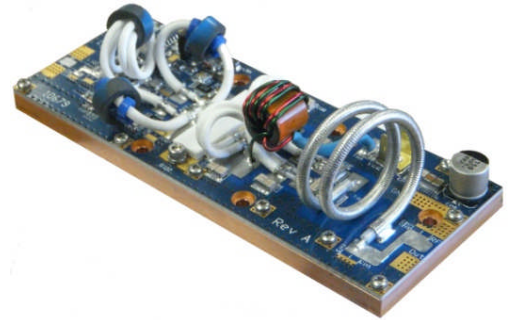
## VHF TV High band - 800W

### Solid State Broadband

### High Power Pallet Amplifier

### Objective Data Sheet

The PP170-230-800 is an 800 watt peak digital power pallet amplifier designed specifically for digital VHF TV high band applications. Superior performance is provided with 20 dB typical gain, efficiency, and power in a very small foot print. PP170-230-800 uses the latest generation LDMOS power transistors for high performance and high reliability. Matched for 50 ohms input and output with thermal tracking bias the PP170-230-800 operates Class AB for best linearity and efficiency.



Operating Specifications (Vsupply tbd +43 to +50 V <sub>DC</sub> ; I <sub>dq</sub> =tbd A TBase=25°C)				
Parameter	Min.	Typ.	Max.	Units
Frequency	170		230	MHz
Power Out Peak Digital		800		Watts
Power Out Average DVB-T		200		Watts
Power Out Analog TV Pk. Sync.		500		Watts
Power Gain		20		dB
Gain Variation		+/- 1.5		dB
Drain Current			tbd	Amps
Efficiency		tbd	tbd	%
Input Return Loss			-14	dB
2 <sup>nd</sup> Harmonic		-25		dBc
3 <sup>rd</sup> Harmonic		-15		dBc
Baseplate Temperature	0		+60	°C
Dimensions	2.1"x 5.4"x 1.5"			

## FEATURES

- 800 Watts Peak Digital Power
- 500 Watts Analog Pk. Sync.
- Highest Power Density Available
- 50 Ohm input/output
- Thermal tracking Bias
- Smallest Footprint Available

## Absolute Maximum Ratings

Parameter	Value
Input Voltage	+50.0V DC
Bias Current	tbd A
Drain Current	tbd A
Load Mismatch All Phase angles, Drain current limited to tbd A	3:1
Baseplate Temperature	+60° C

Power Module Technology • 3107 N. Deer Run Road, Suite 20, Carson City, Nevada 89701 USA.

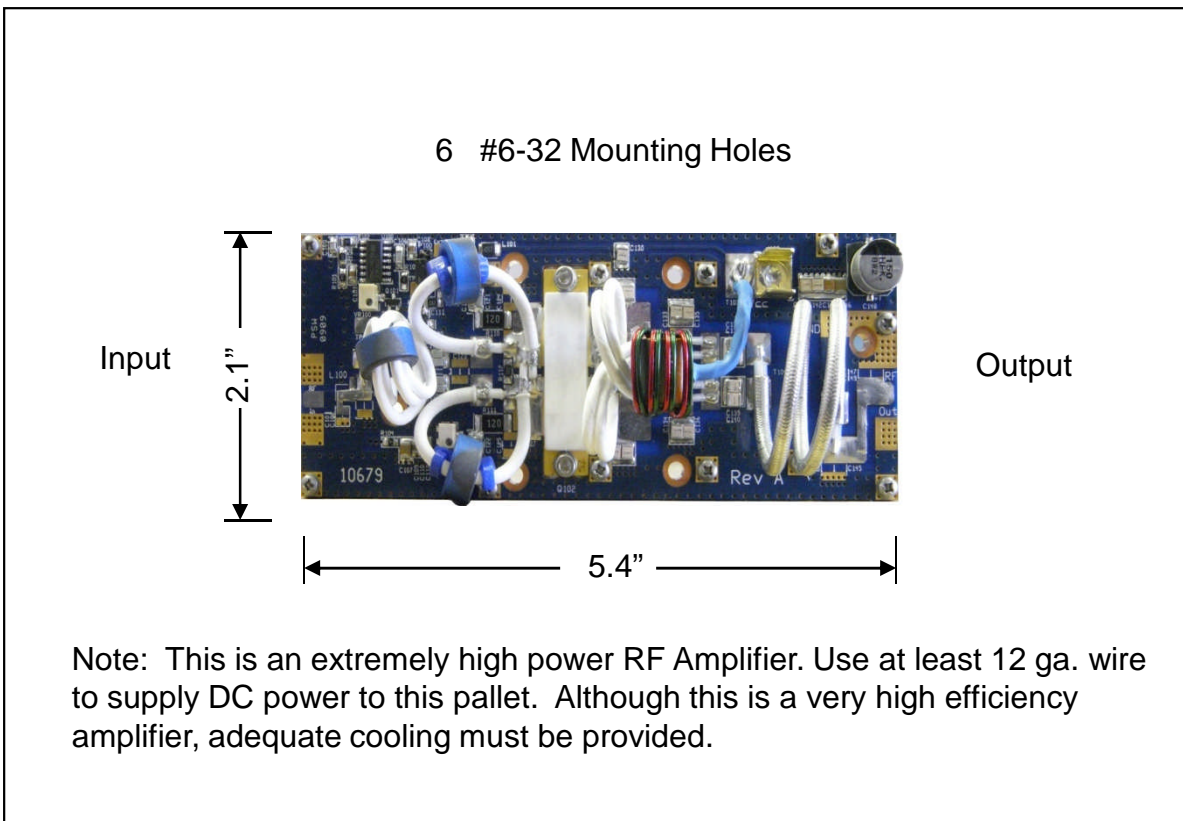
Tel: +1.775.883.1122 e-mail: [sales@pmtrf.com](mailto:sales@pmtrf.com) web: <http://www.pmtrf.com>

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Reference Circuit



Reference circuit size (not to scale)

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*Objective Data Sheet*

Revision History:

06-19-09

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:

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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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