



## PP0.2-4.0-400 200 kHz - 4.0 MHz – 400W Peak Power Solid State Broadband High Power Pallet Amplifier

The PP0.2-4.0-400 is a 400W peak power pallet amplifier for the 200 kHz - 4.0 MHz AM and SSB bands. Superior performance is provided offering high gain 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 PP0.2-4.0-400 to operate Class AB providing 100 watts AM carrier power making this the natural choice for your high power broadband application. Please note this amplifier is rated for 100 W average power maximum.



<b>Specifications</b> (Vsupply=+50V Vdc, Idq=0.5A, TBase=25°C)				
Parameter	Min	Typ	Max.	Unit
Frequency	0.2		4.0	MHz
Pout AM carrier power		100	100	Watts
Power In <small>For 100 W Carrier Power</small>		1.25	1.75	Watts
Gain	17.5	19		dB
Drain Current <small>@ 100 W carrier power</small>		6.5		Amps
Efficiency <small>@ 100 W carrier power</small>		30		%
Input VSWR		1.2:1	1.5:1	
Op Voltage	48	50		Volt
2 <sup>nd</sup> Harmonic		-25		dBc
3 <sup>rd</sup> Harmonic		-15		dBc
Physical Dimensions	4.5" x 3.0" x 2.0" 11.4cm x 7.6cm x 5.1cm			

### Features

- 100 Watts AM Carrier Power
- 50 ohms input/output
- Thermal tracking Bias
- 400 Watts Peak Power, Class AB
- No circuit tuning or RF assembly

<b>Maximum Ratings</b>	
Parameter	Value
Input Voltage	+52 VDC
Bias Current	3.0 Amp
Drain Current	8.0 Amp
Load Mismatch	3:1
<small>All Phase angles, current limited to 8.0 A</small>	
Baseplate Temperature	+60°C
Storage Temp	-40° - +105°C

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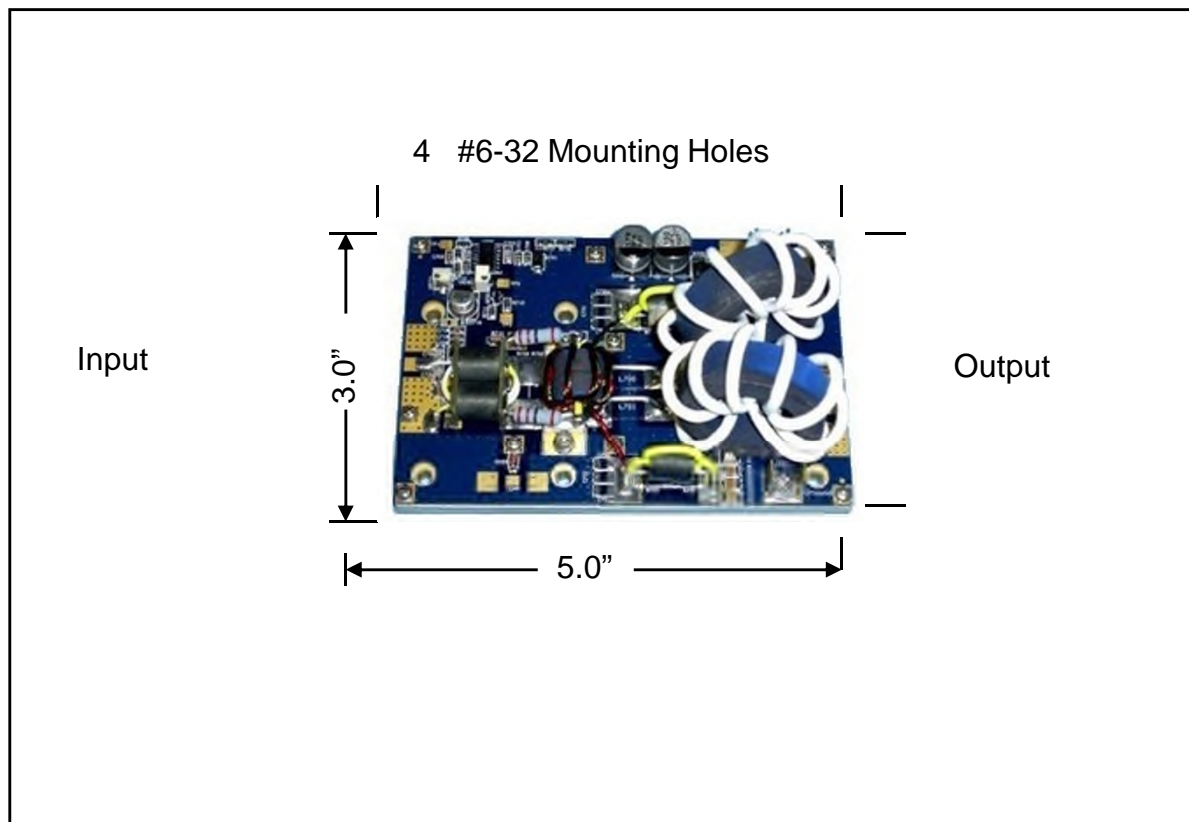
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**Solid State Broadband**  
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Reference Circuit



Reference circuit size (not to scale)

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Revision History:	01/07/08	Preliminary Data Sheet
	02-03-09	Final 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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