



PP400-1000-200 Solid State Broadband High Power Amplifier Pallet

PP400-1000-200 is the natural choice for your high power broadband military communications, EW, jamming, radar, commercial communications or EM test applications. This Class AB pallet amplifier features the latest generation LDMOS power transistors for maximum MTBF, and provides a minimum 200 watts CW output power with a typical 19 dB of gain in a very small 2.3"W x 6.5"L footprint



Operating Specifications

(Pout 200W, Vsupply=+43VDC, I_{dc}=1.0A, T_{Base}=25°C)

Parameter	Min.	Typ.	Max.	Units
Frequency	400		1000	MHz
Power Out, P1dB	200			Watts
Gain	17	19		dB
Gain Flatness		+/-1.5		dB
Power In		2.5		Watts
Drain Current		10		Amps
Efficiency		46		%
Input Return Loss		-5		dB
Second Harmonic		-25		dBc
Third Harmonic		-30		dBc
Baseplate Temperature	0		+60	°C
Dimensions	2.3" x 6.5" x 1.0" 58.4mm x 165.1mm x 25.4mm			

Features

- Instantaneous frequency range
- 400-1000MHz
- RF Input signal CW, FM, AM, PM,
- UHF, Multi tone, ECCM
- 200 watts P1dB minimum
- 19 dB typical gain
- Class AB
- DC input power 40-43VDC
- 50 ohms input/output
- Lightweight, 28 oz.
- No circuit tuning or RF assembly
- 2 year factory warranty

Maximum Ratings

Parameter	Value
Input Voltage	+43 VDC
Bias Current	2.0 Amp
Drain Current	14.5 Amp
Load Mismatch	3:1
<small>All Phase angles, current limited to 14.5A for 3 sec.</small>	
Baseplate Temp.	+60°C
Storage Temp.	-40° - +105° C

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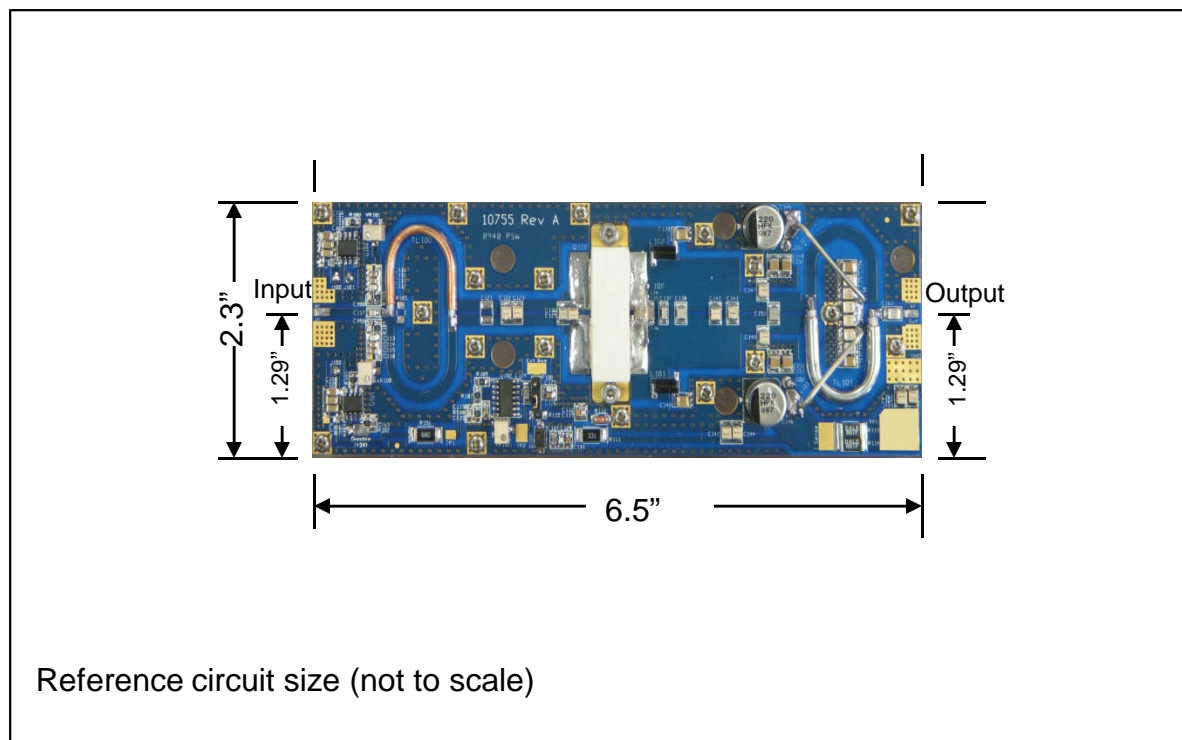
Tel: +1.775.883.1122 e-mail: sales@pmtrf.com web: <http://www.pmtrf.com>

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Reference Circuit



Amplifier Options			
Opt. 1	Disable/Enable	Opt. 4	VSWR Protection
Opt. 2	Temperature protection	Opt. 5	VSWR Alarm
Opt. 3	Temperature alarm	Opt. 7	Ruggedized to survive MIL-STD-810F, Table 514.5-I, Category 13
(Contact the factory for option pricing)			

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Revision History:

02/09/09

Data Sheet

We Listen to your comments. If there is any information within this document that you feel is incorrect, 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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