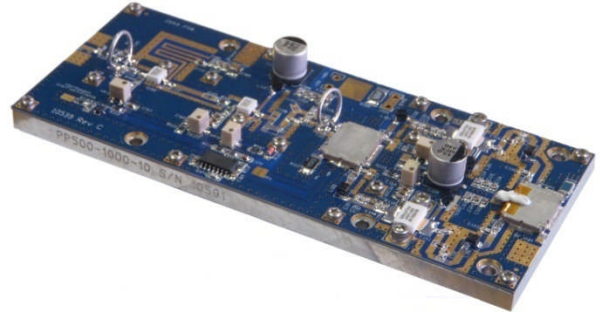




PP400-1000-20 400-1000 MHz – 20W Solid State Broadband High Power Pallet Amplifier

The PP400-1000-20 is a 20W pallet amplifier for the 400-1000 MHz band. This Class A/AB pallet amplifier utilizes three LDMOS gain stages providing typical power gain of 43 dB at 20 Watts. A Quadrature combined output provides an excellent match for the pallet when integrating into a 50 ohm system making PP400-1000-20 is the natural choice your broadband requirements.



Specifications

(Vsupply=+28V Vdc, Idq=2.5A, T_{Base}=25°C)

Parameter	Min.	Typ	Max.	Unit
Frequency	400		1000	MHz
Pout P1dB	15	20		Watts
Gain	42	44		dB
Power In		0.8	1.3	mW
Drain Current Pout=15W		3.8		Amps
Input VSWR		1.3:1	1.5:1	
2 nd Harmonic		-30	-16	dBc
3 rd Harmonic		-40	-30	dBc
Baseplate Operating Temp.	0		+60	°C
Size	2.5"x6.0"x0.7"			

Features

- 20 Watts Class A/AB
- 50 ohms input/output
- No circuit tuning or RF assembly

Maximum Ratings

Parameter	Value
Input Voltage	+30 VDC
Bias Current	2.5 Amp
Drain Current	5.0 Amp
Load Mismatch	5:1 All Phase angles, current limited to 5.0 A
Baseplate Temp	+60°C
Storage Temp	-40° - +105°C

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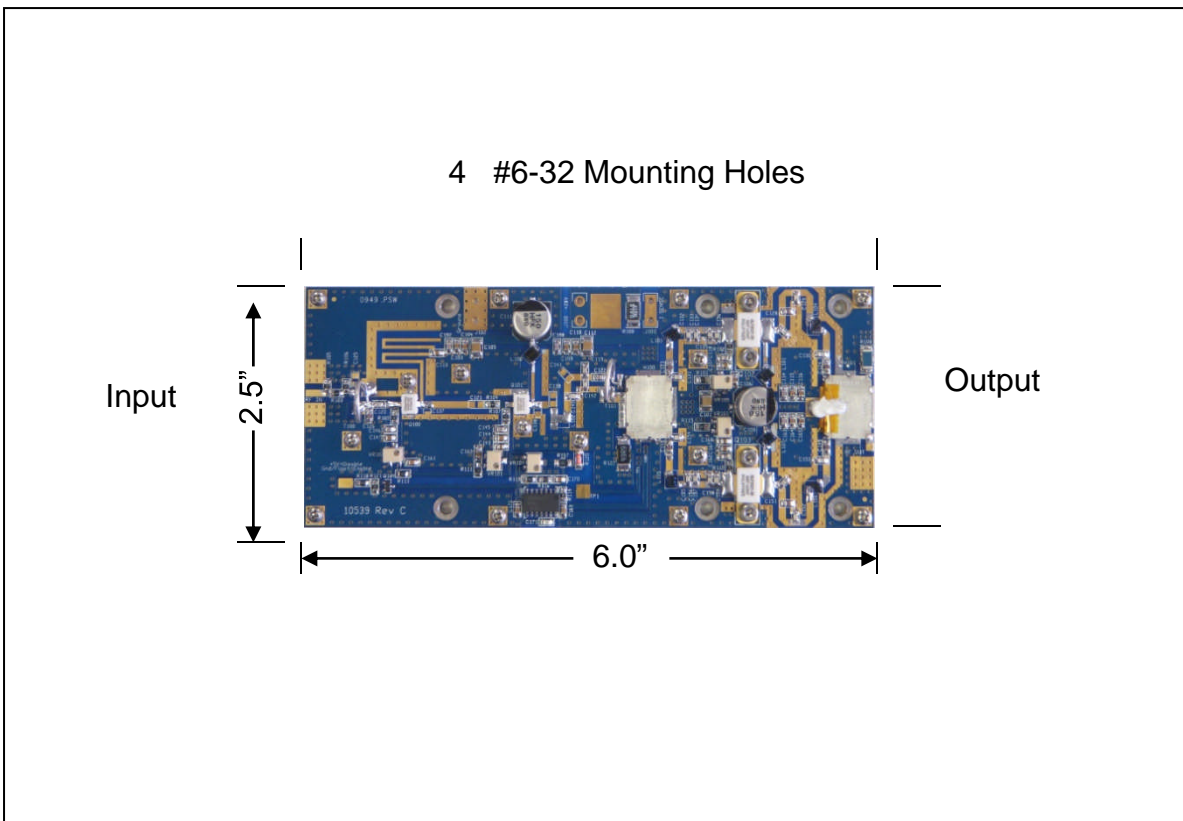
Tel: +1.775.883.1122 e-mail: sales@pmtrf.com web: <http://www.pmtrf.com>

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Reference Circuit



Reference circuit size (not to scale)

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PP400-1000-20
400-1000 MHz – 20W
Solid State Broadband
High Power Pallet Amplifier

Revision History:

0204/10

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:

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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