



PM400-1000-100

400-1000 MHz – 100W

Solid State Broadband High Power Pallet Amplifier

The PP400-1000-50 is a 50W amplifier module for the 400-1000 MHz band. This Linear Class AB pallet amplifier features Gold Metallized LDMOS transistors providing P1dB 120W typ. 50 Ohms input and output allows this pallet amplifier to be used as both an output PA with 50W of output power or as a driver. Thermal tracking allows for superior performance in providing high gain, efficiency, and power in a small pallet footprint, making this a great choice for your broadband applications



Photo for reference only

Specifications

(Vsupply=+28V Vdc, Idq=0.6A, T_{Base}=25°C)

Parameter	Min.	Typ	Max.	Unit
Frequency	400		1000	MHz
Pout P1dB	100	120		Watts
Gain	10	11		dB
Power In		7.9	10	Watts
Drain Current		6.5		Amps
Efficiency	40			%
Input R/L		-10		
2 nd Harmonic		-20		dBc
3 rd Harmonic		-35		dBc
Baseplate Operating Temp.	0		+60	°C
Size	2.4"x6.5"x1.0"			

Features

- 50 Watts Class AB, Linear
- 11 dB Gain typical
- 50 ohms input/output
- No circuit tuning or RF assembly
- Selectable internal/external Bias

Maximum Ratings

Parameter	Value
Input Voltage	+34 VDC
Bias Current	2.0 Amp
Drain Current	12 Amp
Load Mismatch	3:1
All Phase angles not to exceed 12A for 2 sec.	
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>

Specifications contained herein are subject to change without notice.

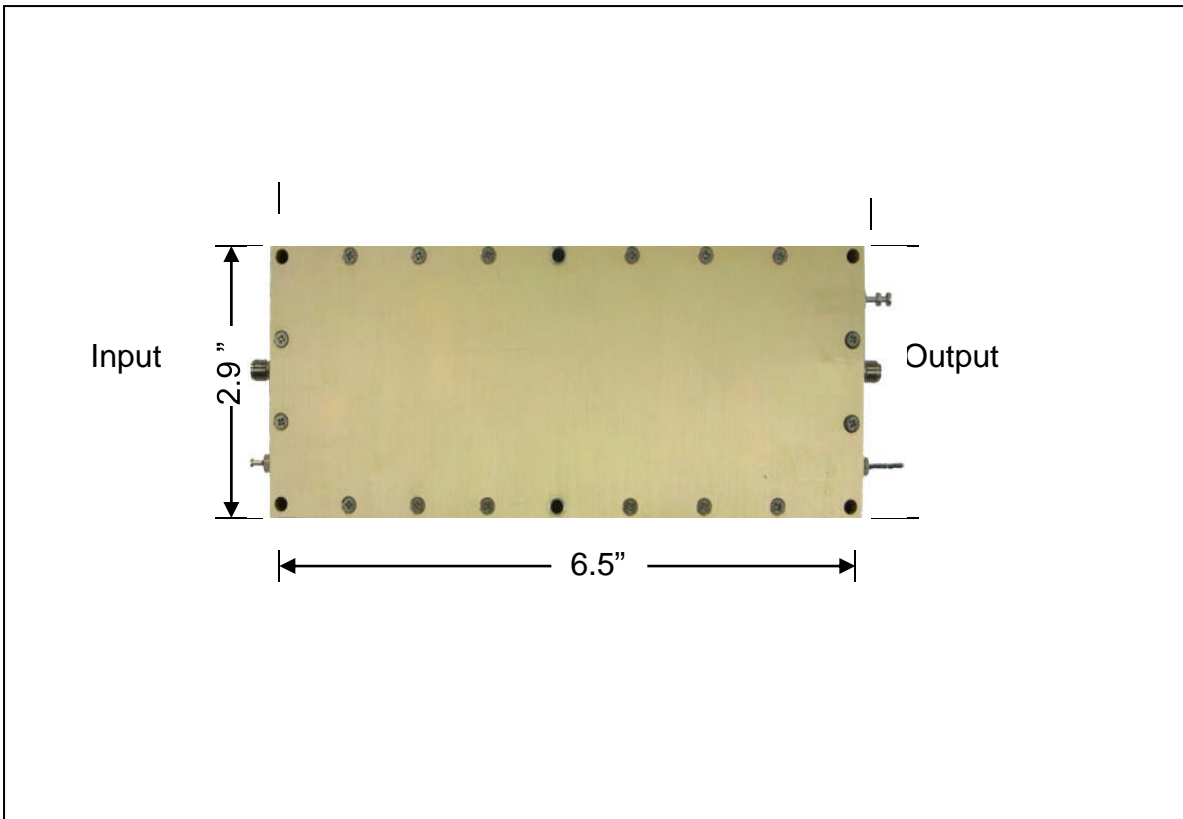
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Reference Circuit



Reference circuit size (not to scale)

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Revision History:	3/6/08	Data Sheet
Previous Versions:	-	
Page	Subjects (major changes since last revision)	
Rev. 1	Product Name Change	3/19/09

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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Attention please:

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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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