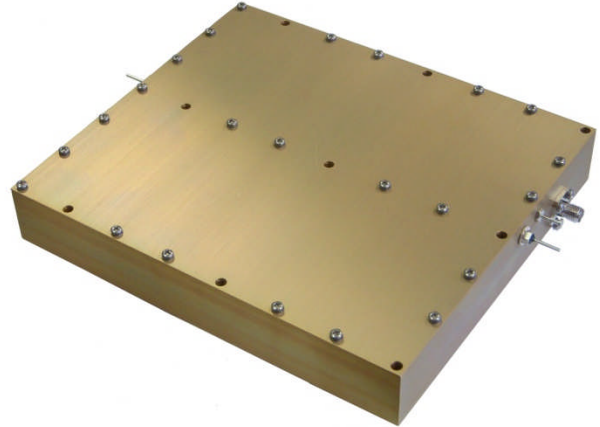




PM400-1000-100-50 400-1000 MHz – 100W Solid State Broadband High Power Module Amplifier

The PM400-1000-100-50 is a 100W, Class A/AB high gain linear amplifier module for the 400 - 1000 MHz band. Superior performance is provided offering high gain, efficiency and power in a small module footprint using broadband matching techniques and the finest Gold MOSFET transistors available on the market today. Matched for 50 ohms input and output, the PM400-1000-100-50 is a high gain linear amplifier providing 100 watts at P1dB making this the natural choice for your broadband application.



Specifications

(Vsupply=+28V Vdc, Idq=2.1A, TBase=25°C)

Pout = 100W

Parameter	Min.	Typ	Max.	Unit
Frequency	400		1000	MHz
Pout CW P1dB	100	125		Watts
Power In		-2		dBm
Gain	50	52		dB
Drain Current		10.0	13.0	Amps
Input VSWR			1.5:1	
Supply Voltage	24	28	32	Volt
2 nd Harmonic		-20		dBc
3 rd Harmonic		-30		dBc
Physical Dimensions	6.5" x 5.7" x 1"			

Features

- 100 Watts P1dB Class A/AB
- RF Disable
- 50 ohms input/output
- Bandwidth 400-1000 MHz
- All Gold MOSFETS for Maximum Reliability

Maximum Ratings	
Parameter	Value
Supply Voltage	+32 VDC
Bias Current	4.0 Amp
Drain Current	15.0 Amp
Load Mismatch, All Phase Angles, Drain Current Limited to 15A for 5 sec. max.	3:1
Storage Temp	-40° - +105°C
Case Op. Temp	+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 web: <http://www.pmtrf.com>

Specifications contained herein are subject to change without notice.

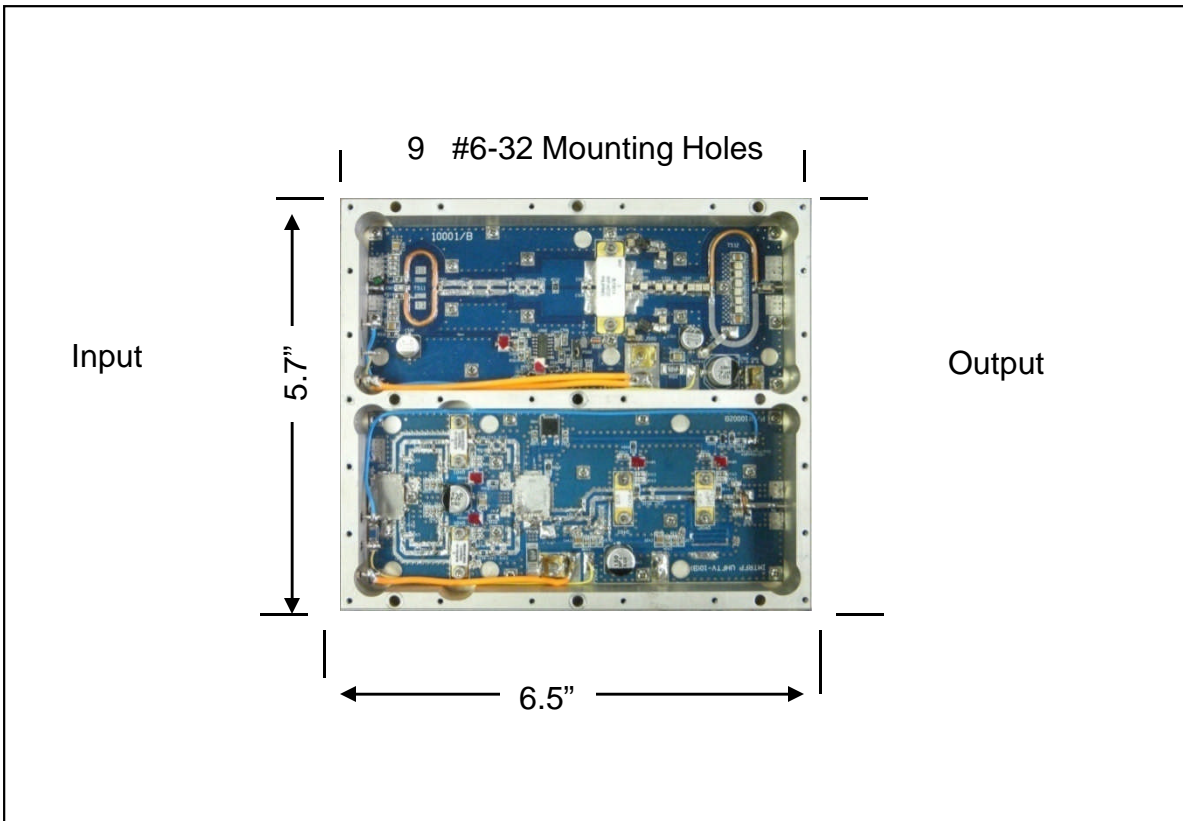
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PM400-1000-100-50
400-1000 MHz – 100W
Solid State Broadband
High Power Module Amplifier

Reference Circuit



Reference circuit size (not to scale)

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400-1000 MHz – 100W
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Revision History: 03/15/10 Data Sheet

Previous Versions: -
Page Subjects (major changes since last revision)

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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