



PM400-1000-20 400-1000 MHz – 20W Solid State Broadband High Power Amplifier Module

The PM400-1000-20 is a 20W amplifier module for the 400-1000 MHz band. This Class A/AB amplifier utilizes three LDMOS gain stages providing power gain of 44 dB at 20 Watts. A quadrature combined output provides an excellent match for the pallet when integrating into a 50 ohm system. The PM400-1000-20 is ideal for laboratory and other broadband UHF applications.



Specifications

(Pout =20W, Vsupply=+28V Vdc, Idq=2.45A, 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=10W		3.8		Amps
Input VSWR		1.3:1	1.5:1	
2 nd Harmonic		-30	-16	dBc
3 rd Harmonic		-40	-30	dBc
Housing Base Operating Temp.	0		+60	°C
Size	3.02"x6.52"x.1.125"			

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	3:1
All Phase angles, Drain current limited to 5.0A	
Housing Base Temp.	+60°C
Storage Temp	-40° - +105°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.

PMT, Inc assumes no liability for the use of this information.

© PMT, Inc 2008

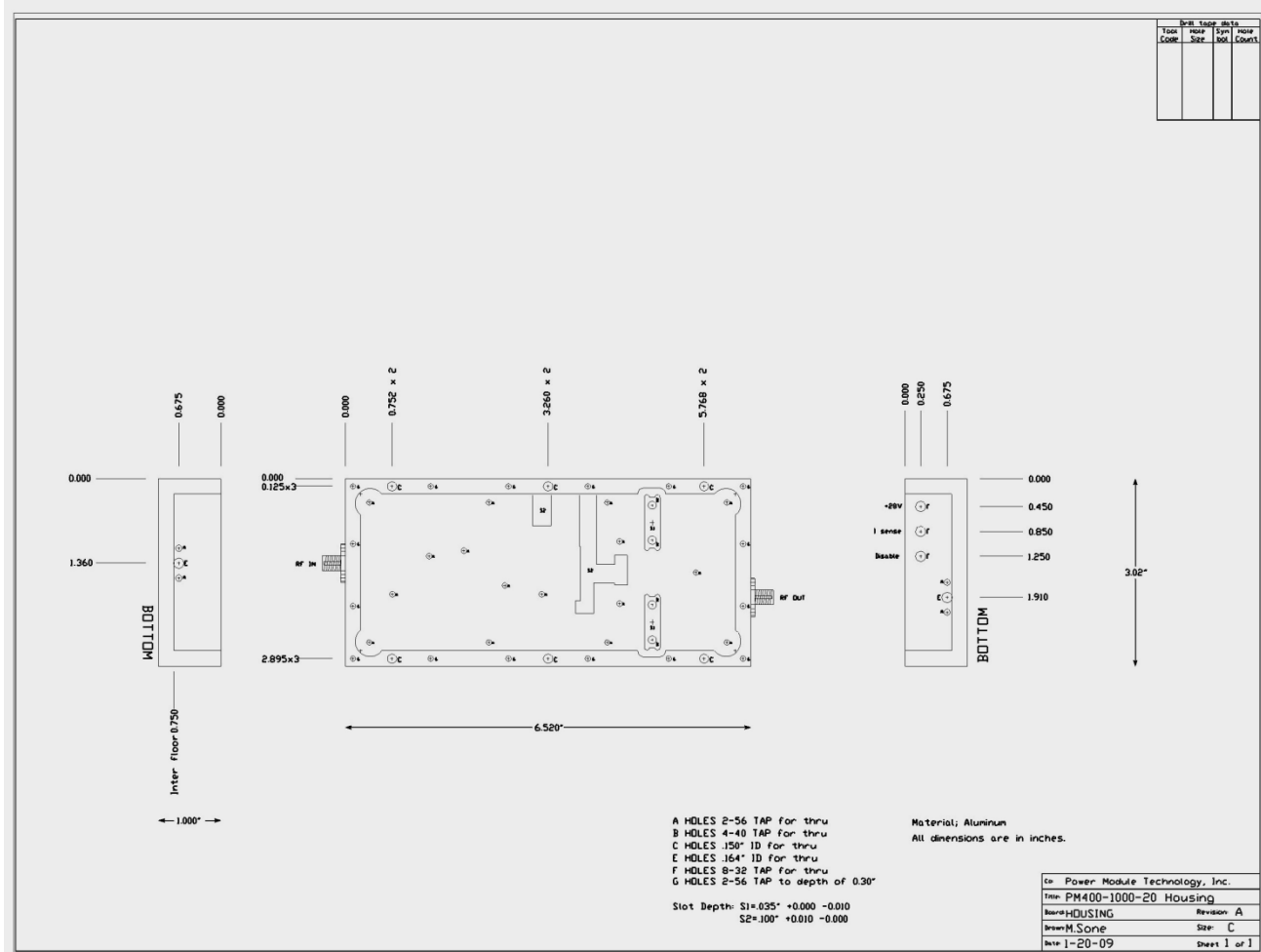


PM400-1000-20

400-1000 MHz – 20W

Solid State Broadband

High Power Amplifier Module



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.

PMT, Inc assumes no liability for the use of this information.

© PMT, Inc 2008



PM400-1000-20
400-1000 MHz – 20W
Solid State Broadband
High Power Pallet Amplifier

Revision History:	12/08/08	Data Sheet
Page 1	04/01/10	Rev. 1
Increase gain lower Pin, improved 2 nd & 3 rd harmonics		

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

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.

PMT, Inc assumes no liability for the use of this information.

© PMT, Inc 2008