



PM1-525-10

1-525 MHz – 10W

Solid State Broadband High Power Module Amplifier

The PM1-525-10 is a 10W, class “A” Linear amplifier module for the 1 - 525 MHz band. It offers superior performance offering high gain and power in a small module footprint using advanced broadband matching techniques and the finest Gold MOSFET transistors available on the market today. Matched for 50 ohms input and output, the PM1-525-10 is a Class A amplifier providing a minimum of 10 watts P1dB making this the natural choice for your broadband applications.



Specifications				
(Vsupply=+28V Vdc, Idq=2.0A, TBase=25°C)				
Parameter	Min.	Typ	Max.	Unit
Frequency	1		525	MHz
Pout CW P1dB	+40			dBm
Power In		-5		dBm
Gain	42	45		dB
Gain Flatness		+/-1.5		dB
Drain Current		2.2		Amps
Input R/L			-14	dB
Supply Voltage	24	28	30	Volt
IMD ₃ , 2 tone 10W PEP, Δf=10KHz		-34	-28	dBc
2 nd Harmonic		-30	-20	dBc
3 rd Harmonic		-30	-25	dBc
Physical Dimensions	2.0"x4.0"x1.0			

Features

- 10 Watts P1dB Class A
- 50 ohms input/output
- Bandwidth 1 – 525 MHz
- Optional Amplifier Enable (0.0 VDC), Disable (+5.0 Vdc), TTL
- All Gold MOSFETS for Maximum Reliability

Maximum Ratings	
Parameter	Units
Supply Voltage	30 VDC
Bias Current	2.5 Amp
Drain Current	3.0 Amp
Load Mismatch	∞ :1
All Phase angles, current limited to 3.0A	
Storage Temp	-40° - +105°C
Case Op. Temp.	0° - +60°C

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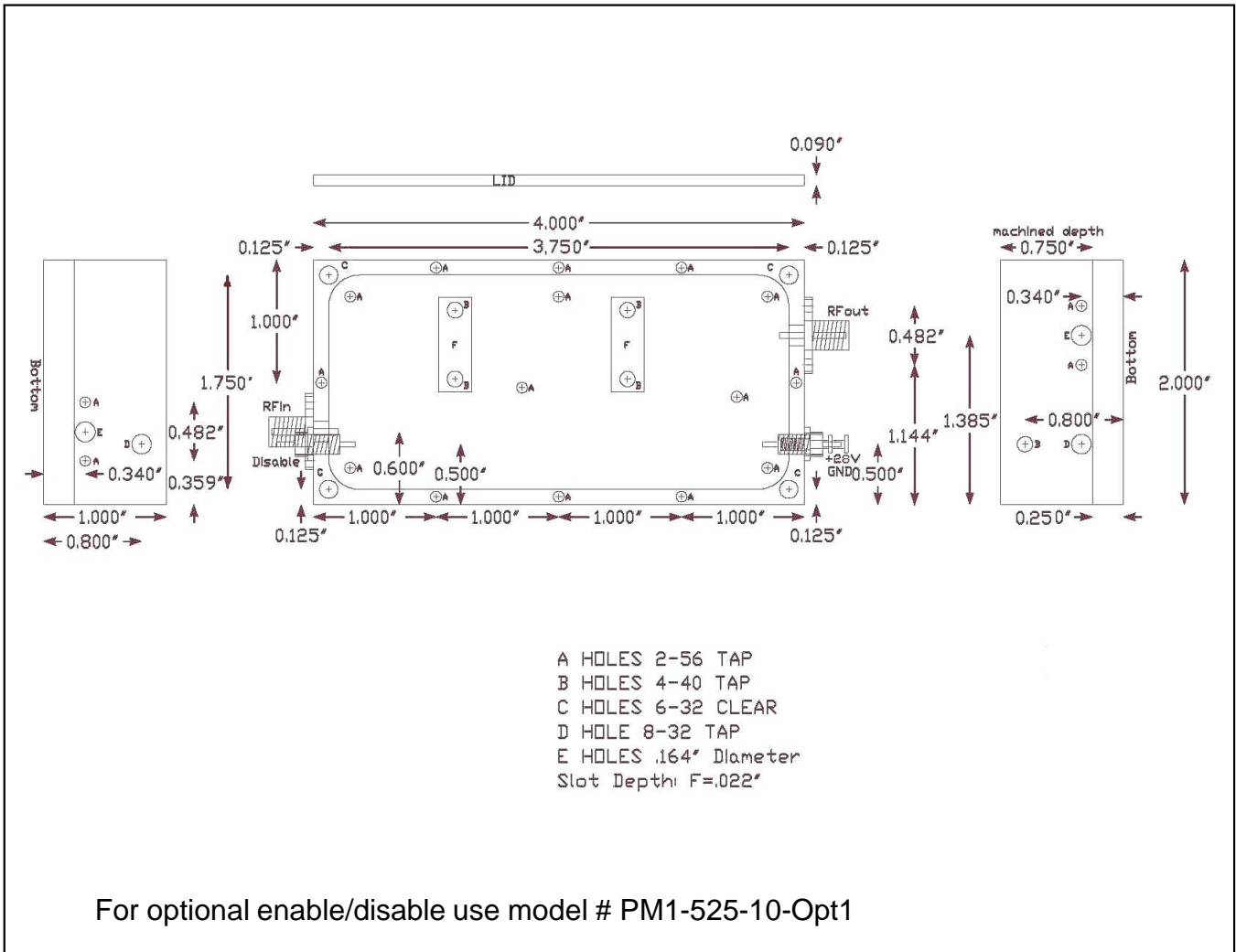
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Revision History: 2-1-07 Preliminary Data Sheet

Page Subjects (major changes since last revision)
 05/05/08 Corrected typographical error in test conditions from
 Idq=2.5A to Idq=1.8A
 12-17-08 Changed Vsupply to 28 V and updated improved
 performance multiple parameters.
Rev. 3 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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