



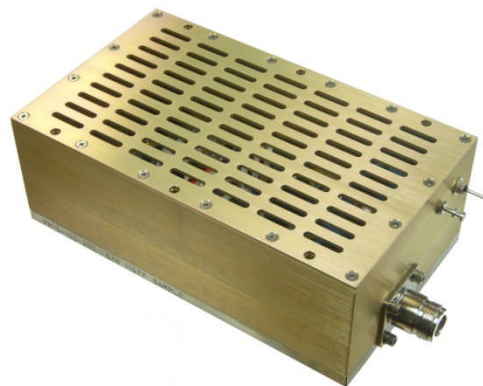
PM10-100-300

10-100 MHz – 300W

Solid State Broadband

High Power Amplifier Module

The PM10-100-300 is a 300W pallet amplifier for the 10-100 MHz HF/VHF band. Superior performance is provided offering high gain, efficiency and power in a small module footprint using advanced broadband RF matching networks, and the latest generation LDMOS power transistors available today. Matched for 50 ohms input and output, thermal tracking bias allows for the PP10-100-300 to operate Class AB providing 300W P1dB from 10-100MHz making this the natural choice for your high power broadband application in the 10 - 100MHz HF/VHF band.



Operating Specifications				
(Pout 300W, Vsupply=+50VDC, Idq=1.0A, Base=25°C)				
Parameter	Min.	Typ.	Max.	Units
Frequency	10		100	MHz
Pout P1dB	300			Watts
Gain	21	23		dB
Gain Variation unit to unit	+/-5.0			Degrees
Power In		1.8		Watts
Insertion Phase unit to unit		+/-5.0		Degrees
Drain Current		13		Amps
Efficiency	50	58		%
Input R/L			-14	dB
2 nd Harmonic		-35	-25	dBc
3 rd Harmonic		-12	-10	dBc
Dimensions	3.6" x 6.1" x 2.3" 91.4mm x 154.9mm x 58.4mm			

Features

- 300W P1dB, 10-100MHz
- Latest generation LDMOS transistors for maximum performance & reliability
- 50 ohms input/output
- Thermal tracking bias
- No circuit tuning or RF assembly

Maximum Ratings	
Parameter	Value
Supply Voltage	+50 VDC
Bias Current	2.0 Amps
Drain Current	16.0 Amps
Load Mismatch	3:1
<small>All Phase angles, current limited to 16.0 A for 3 sec.</small>	
Baseplate Temp.	+60°C
Storage Temp.	-40° to +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>

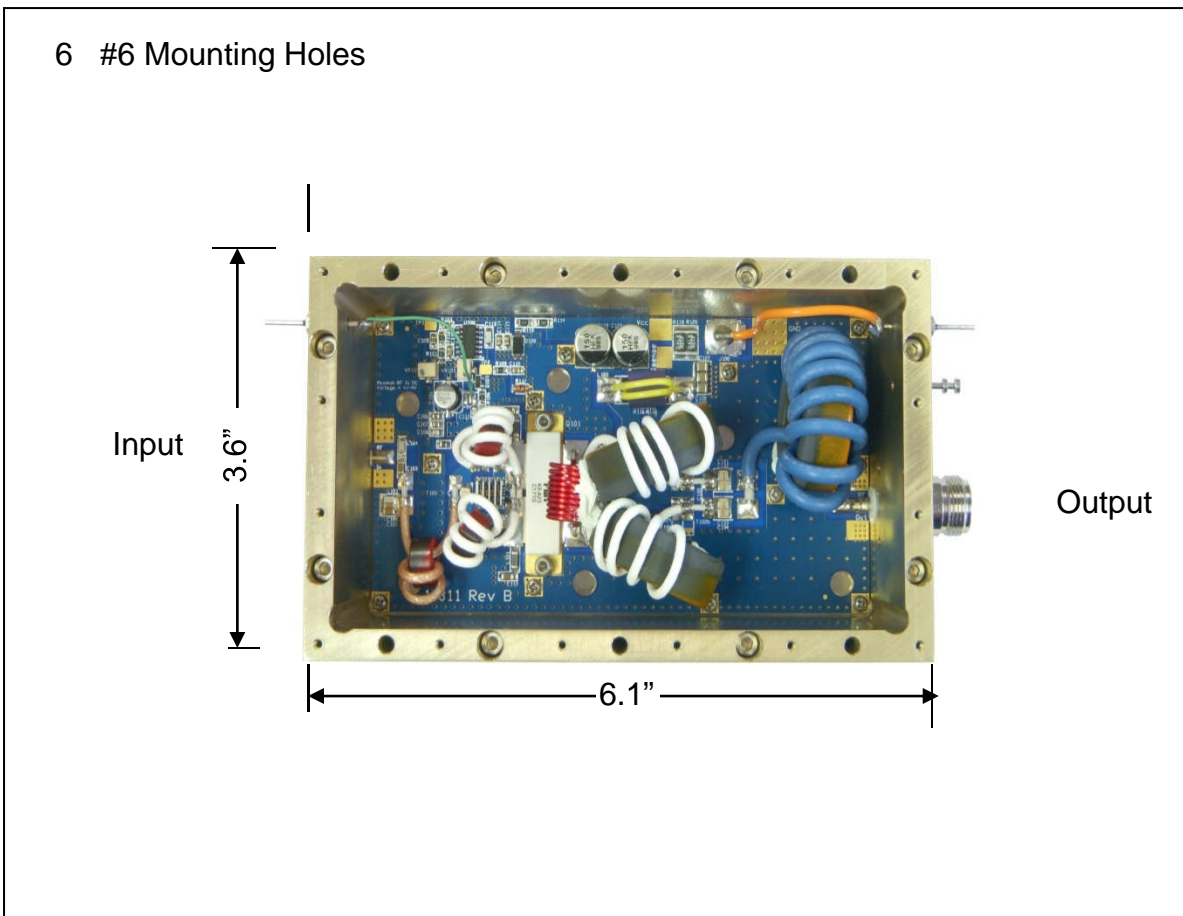
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Reference outline size (not to scale)

Notes:

Maximum allowable DC voltage on RF input is +/- 4 VDC.
Do not exceed 300 watts CW at 100MHz.

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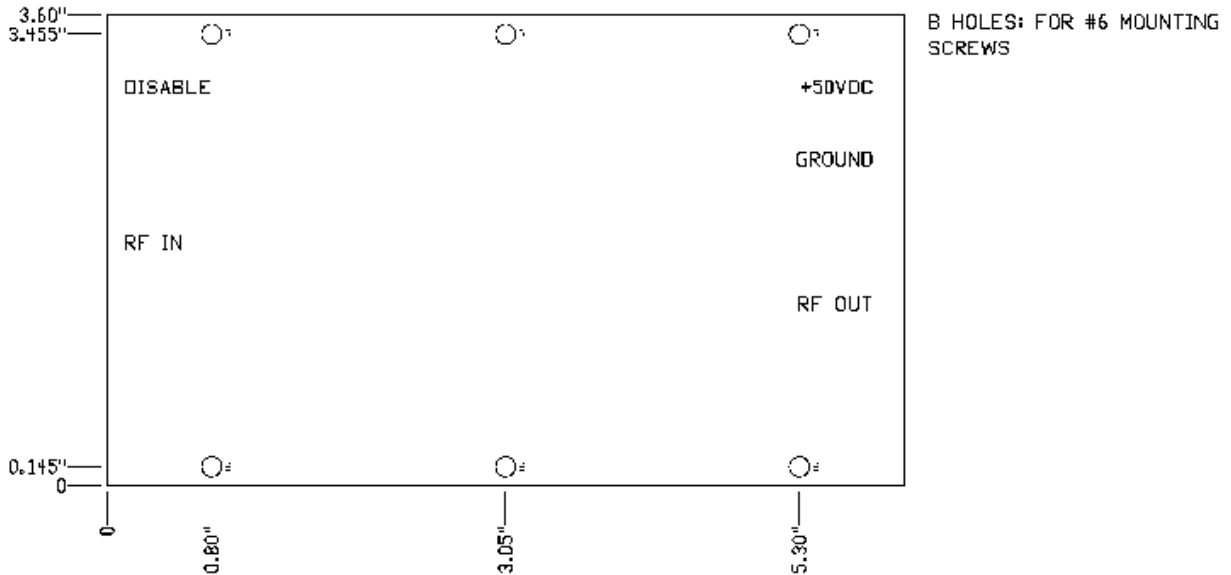
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Rev	Comments
A	Initial release



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	Production:	Date:	Title: Drawing, Mounting Holes, PM10-100-300	
	Quality Control:	Date:	Drawn: 10xxx	Revision: A
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		Date: 5-19-2010	Sheet 1 of 1	

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