



PM10-100-350

10-100 MHz – 350W

Solid State Broadband

High Power Amplifier Module

Preliminary

The PM10-100-350 is a 350W 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 PP10-100-350 to operate Class AB providing 350W CW from 10-100MHz making this the natural choice for your high power broadband application in the 10- 100 MHz HF/VHF band.

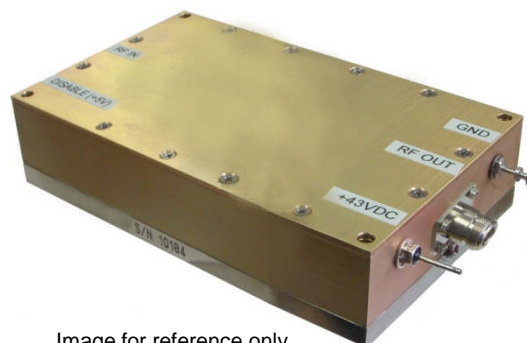


Image for reference only

Operating Specifications				
(Pout 350W, Vsupply=+50V _{DC} , I _{dq} =1.0A, Base=25°C)				
Parameter	Min.	Typ.	Max.	Units
Frequency	10		100	MHz
Pout CW	350			Watts
Gain	21	23		dB
Power In		1.8		Watts
Drain Current		13		Amps
Efficiency	50	58		%
Input R/L		-14		dB
Operating Voltage		50		Volt
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

- 350W CW, 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

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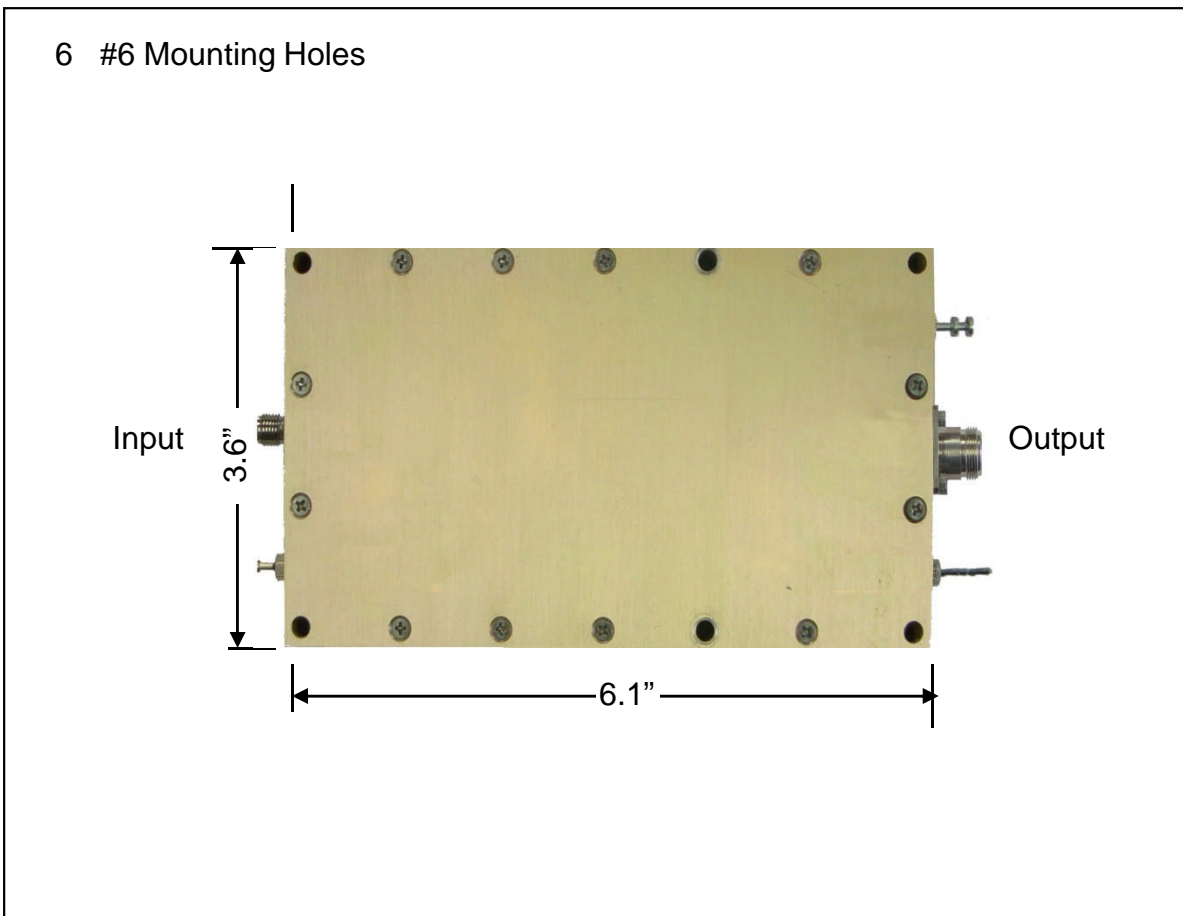
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Reference outline size (not to scale)

Note: Maximum allowable DC voltage on RF input is +/- 4 VDC

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Revision History: 02/12/10 Preliminary Data Sheet
4-23-10 Pout to 350 W min., Cdrain current to 13 amps., eff. Added 50% min.,
IR/L to -14dBc, Oper. V to 50 typ., 2nd Har. To -35 typ. & -25 Max., 3rd Har. added
-10 max., added note: Maximum allowable DC voltage on RF input is +/- 4 VDC

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If there is any information within this document that you feel is wrong, unclear or
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The quality of this document. Please send your suggestions (including a reference
To this document) to:
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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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