



# PM30-512-350

## 30-512 MHz – 350W

### Solid State Broadband

### High Power Amplifier Module

### Preliminary

The PM30-512-350 is a 350W amplifier module for the 30-512MHz VHF/UHF band. Designed for integration into original equipment superior performance is provided offering high power and high gain in a small module footprint. Advanced broadband RF matching networks and a latest generation LDMOS power transistor are used. Matched for 50 ohms input and output, thermal tracking bias allows the PM30-512-350 to operate Class AB providing 350W P1dB from 30-512MHz making this the natural choice for your high power broadband application in the VHF/UHF band.

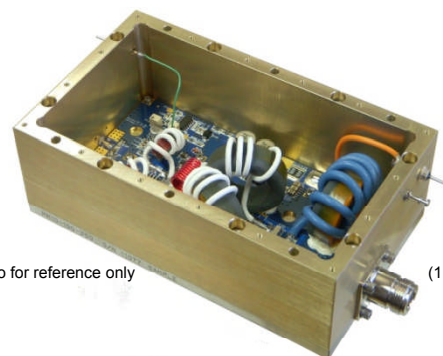


Photo for reference only

(1)

#### Operating Specifications

(Pout 350W, Vsupply=+48VDC, Idq=1.0A, Base=25°C)

Parameter	Min.	Typ.	Max.	Units
Frequency	30		512	MHz
Pout P1dB	300	350		Watts
Pin		7		Watts
Pout AM Carrier		88		Watts
Gain <sup>(2)</sup>	15	17		dB
Gain Flatness		+/-1.5		dB
Drain Current		14.6		Amps
Efficiency	40	50		%
Input R/L			-10	dB
2 <sup>nd</sup> Harmonic		-30	-20	dBc
3 <sup>rd</sup> Harmonic		-15	-10	dBc
Dimensions	4.1" x 6.4" x 1.6" 104.1mm x 162.6mm x 40.6mm			

Notes:

1. Connector options upon request
2. For optional 30dB gain contact factory

#### Features

- Frequency 30-512MHz
- 350W P1dB
- Class AB
- 88 watts AM carrier power
- Bias enable/disable <1msec.
- Current sense
- 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>	
Full spec. Baseplate Temp.	-25°C to +55°C
Oper. Baseplate temp.	-40°C to +70°C
Storage Temp.	-40° to +105° C

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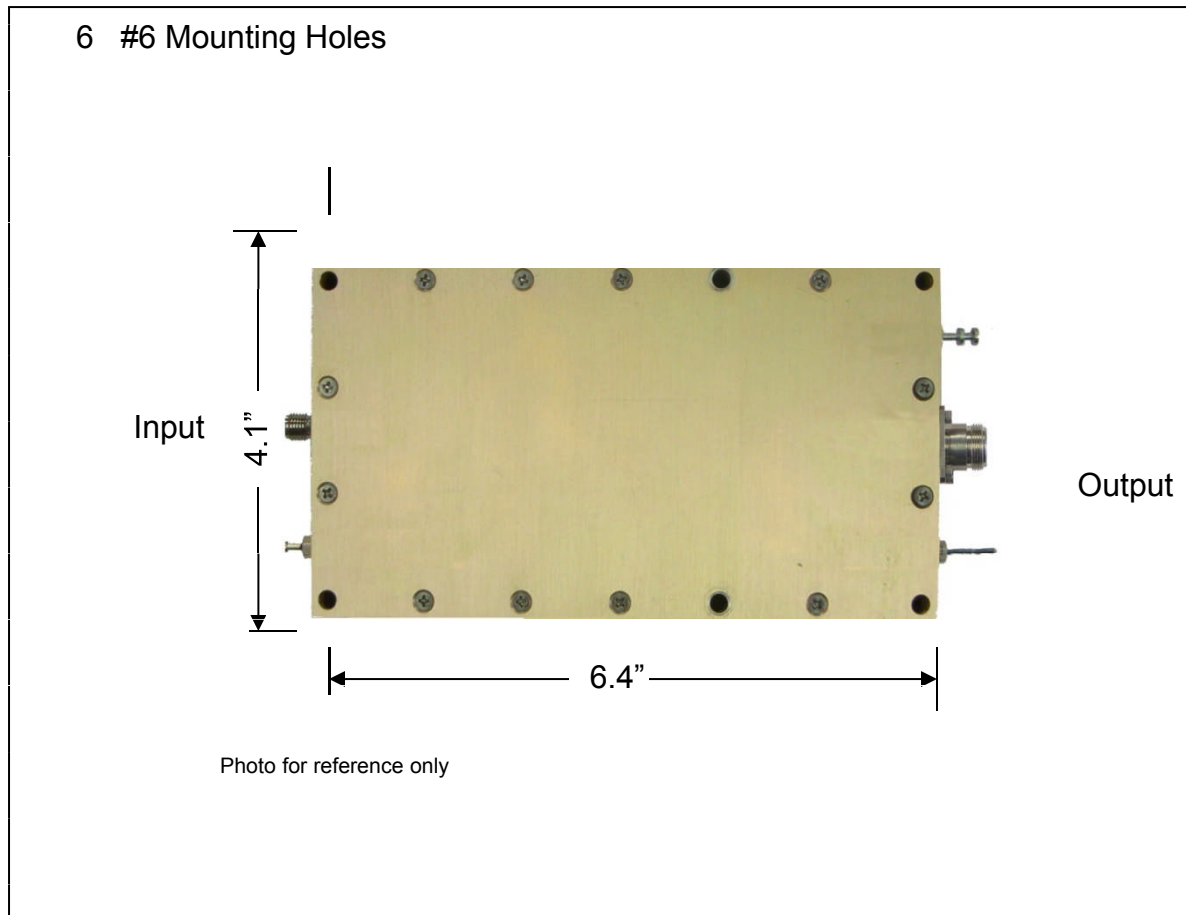
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**30-512 MHz – 350W**  
**Solid State Broadband**  
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Reference outline size (not to scale)

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Revision History:                      11/02/2011                      Preliminary Data Sheet

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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](mailto:Bob.Todd@PMTRF.com)  
To request other information please call 1-775-883-1122

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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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