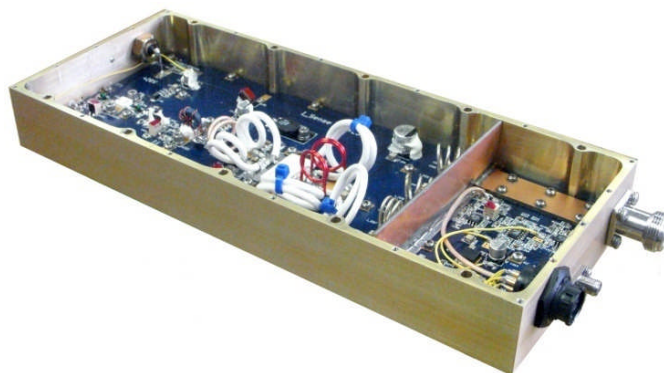




PM118-142-60AM 118-142 MHz – 60W CXR Solid State Broadband High Power Module Amplifier

The PM118142-60 is a 50W CXR AM module amplifier for the 118-142 MHz band. Superior performances provided offering high gain, efficiency and power footprint using advanced broadband RF matching networks, and the finest MOSFET transistors available on the market today. Matched for 50 ohms input and output, Thermal Tracking bias allows for the PM118142-60 to operate Class AB providing 60 watts CXR AM power making this the natural Choice for your high power broadband application in the 118-142 MHz band.



Specifications

(Vsupply=+28V Vdc, Idq=3.2A, TBase=25°C)

Parameter	Min.	Typ	Max.	Unit
Frequency	118		142	MHz
Pout (Carrier)	60			Watts
Distortion <small>60W carrier, 1KHz & 90%</small>		2.5	3.0	%
Gain	39	41	42	dB
Power In	5.8	6.8	8.8	dBm
Drain Current <small>60W carrier</small>		5.8		Amps
Efficiency	22.6	26.1		%
Input VSWR		1.3:1	1.4:1	
2 nd Harmonic	-70			dBc
3 rd Harmonic	-70			dBc
Baseplate Operating Temp.	0		+70	°C

Size 9.75" x 4.0" x 1.3"

Features

- 60 Watts Carrier Power
- Low Distortion
- RF Out Sample
- V Forward & Reflected
- Temp. read out, Volts
- 50 ohms input/output
- Thermal tracking Bias
- No circuit tuning or RF assembly
- Amplifier disable input

Maximum Ratings

Parameter	Value
Input Voltage	+30 VDC
Bias Current	3.5 Amp
Drain Current	10.0 Amp
Load Mismatch	
All Phase angles,	5:1
Baseplate Temp	+75°C
Storage Temp	-40° - +105°C

Power Module Technology • RF Products • 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.

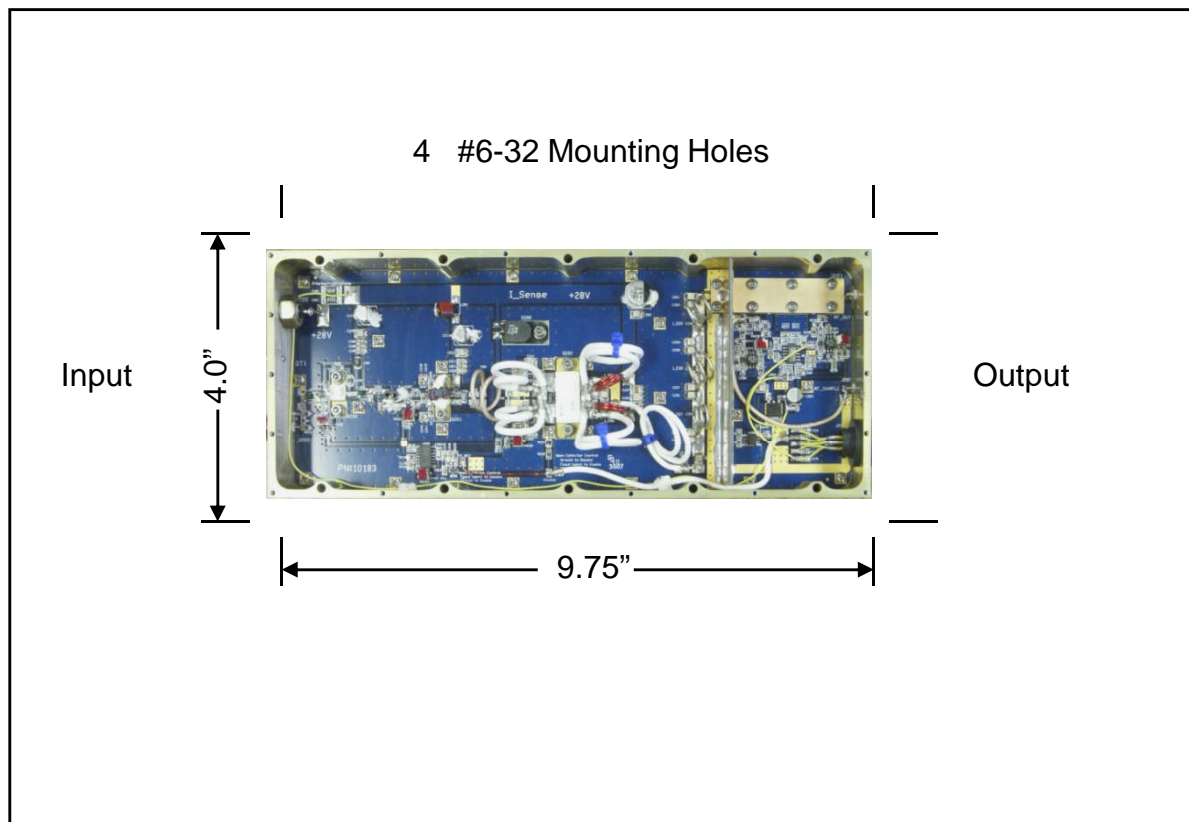
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PM118-142-60AM
118-142 MHz – 60W CXR
Solid State Broadband
High Power Module Amplifier

Reference Module



Reference module size (not to scale)

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Revision History: 8/17/07 Data Sheet
Previous Versions: 5/15/07
Page 8/17/07 Subjects (major changes since last revision)
Additions and changes to specifications, features, and max. ratings
to change from preliminary to final specification.

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
Terry.Simons@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

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