



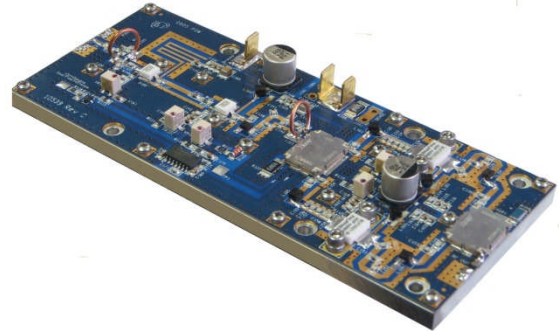
PP470-860-10

Full Band UHF TV – 10W

Solid State Broadband

High Power Pallet Amplifier

The PP470-860-10 is a 10W pallet amplifier for the 470-860 MHz band. This Class A pallet amplifier utilizes three Gold MOSFET gain stages providing typical power gain of 39 dB at 10 Watts Peak-Sync. A quadrature combined output provides an excellent match for the pallet when integrating into a 50 Ohm System. Thermal tracking allows for superior performance in providing high gain, efficiency, and power in a small pallet footprint, making this a great choice for your television applications



Specifications

(Vsupply=+28V Vdc, Idq=2.7A, T_{Base}=25°C)

Parameter	Min	Typ	Max.	Unit
Frequency	470		860	MHz
Pout P1dB	10	19		Watts
Linear Power Out, Pk Sync	10	12		W
Gain		39		dB
Power In		+1.8		mW
Drain Current Pout=10W Pk Sync		2.7		Amps
Input VSWR		1.2:1	1.5:1	
2 nd Harmonic		-30		dBc
3 rd Harmonic		-20		dBc
Baseplate Operating Temp.	0		+70	°C
Size	2.5"x6.0"x.7"			

Features

- 10 Watts Class A
- 50 ohms input/output
- No circuit tuning or RF assembly
- 12 Watts Pk-Sync @ -54dB IMD
- 2.5 Watts (avg) Digital Power out

Maximum Ratings

Parameter	Value
Input Voltage	+32 VDC
Bias Current	.25 Amp
Drain Current	3.0 Amp
Load Mismatch All Phase angles	5:1
Baseplate Temp	+70°C
Storage Temp	-40° - +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>

Specifications contained herein are subject to change without notice.

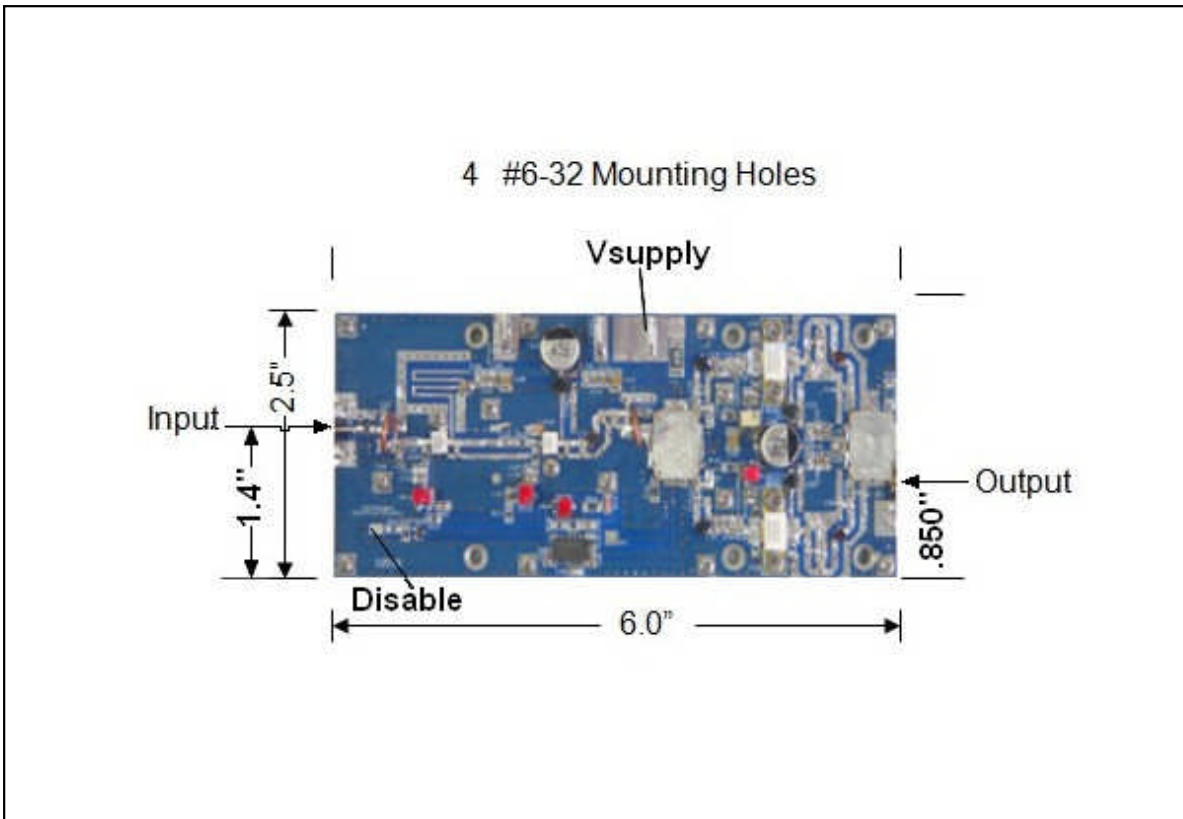
PMT assumes no liability for the use of this information.

© PMT 2008



PP470-860-10 Full Band UHF TV – 10W Solid State Broadband High Power Pallet Amplifier

Reference Circuit



Reference circuit size (not to scale)

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>

Specifications contained herein are subject to change without notice.

PMT assumes no liability for the use of this information.

© PMT 2008



PP470-860-10
Full Band UHF TV – 10W
Solid State Broadband
High Power Pallet Amplifier

Revision History:	2/1/07	Data Sheet
	2-25-09 Updated picture	
Previous Versions:	-	
Page	Subjects (major changes since last revision)	
Rev. 2	Product Name Change	3/9/09

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:
Bob.Todd@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

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>

Specifications contained herein are subject to change without notice.

PMT assumes no liability for the use of this information.

© PMT 2008