



PP470-860-5 Full Band UHF TV – 5W Solid State Broadband High Power Pallet Amplifier

The PP470-860-5 is a 5W pallet amplifier for the 470-860 MHz band. This Class A pallet amplifier utilizes three Gold MOSFET gain stages providing typical power gain of 26 dB at 5 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=1.2A, T_{Base}=25°C)

Parameter	Min	Typ	Max.	Unit
Frequency	470		860	MHz
Pout P1dB		10		Watts
Linear Power Out, Pk Sync	5	7		Watts
Gain	25	26		dB
Power In			15.85	mW
Drain Current Pout=10W Pk Sync		1.2		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"x3.8"x.7"			

Features

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

Maximum Ratings

Parameter	Value
Input Voltage	+32 VDC
Bias Current	.5 A/ea
Drain Current	1.3 Amp
Load Mismatch All Phase angles	∞:1
Baseplate Temp	+70°C
Storage Temp	-40° - +105°C

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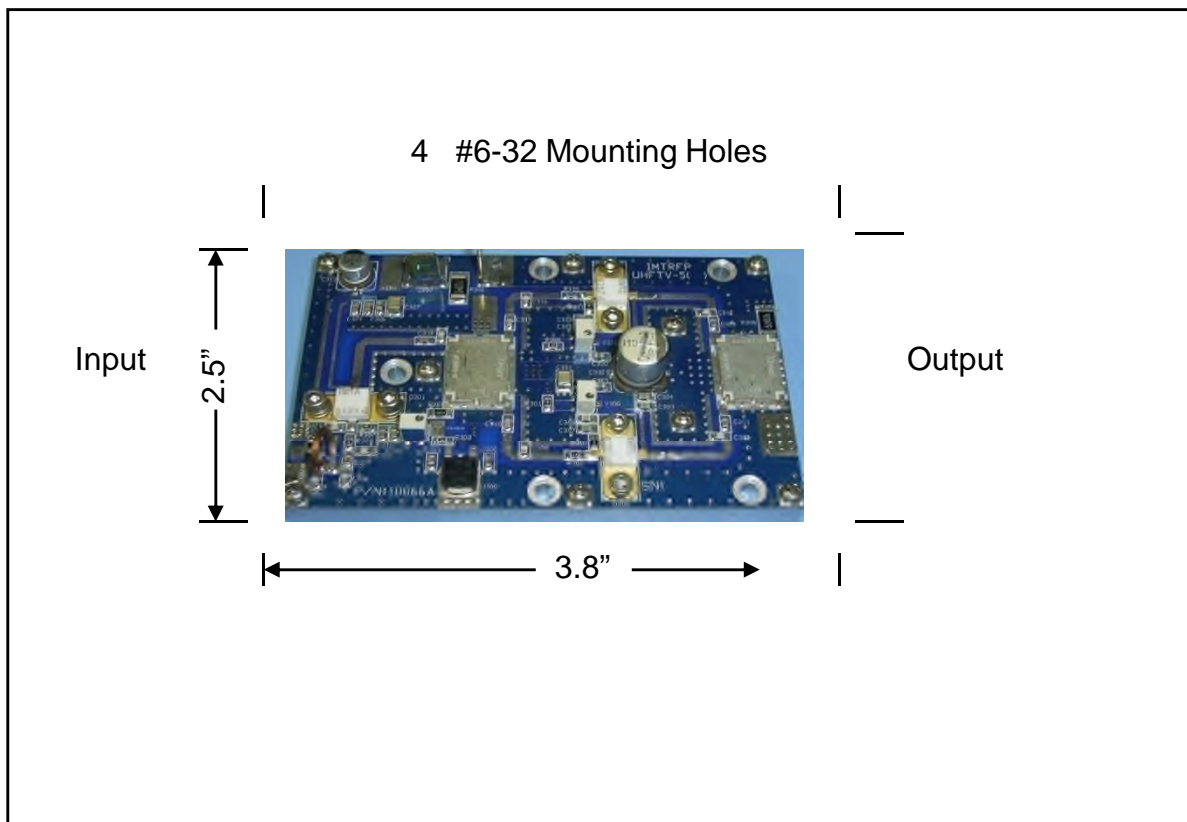
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Reference Circuit



Reference circuit size (not to scale)

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Revision History:	2/1/07	Data Sheet
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:

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Attention please:

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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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