



# PP170-230-40

## 170-230 MHz – 40W

### Solid State Broadband High Power Pallet Amplifier

The PP170-230-40 is a 40W Class A pallet amplifier for the 170-230 MHz band. Superior performance is provided offering high gain, and power in a small pallet footprint using Gold MOSFET transistors available on the market today. Matched for 50 ohms input and output, the PP170-230-40 provides 20 dB typical Gain with NTSC Full-Field Red Power output in excess of 40 Watts at -54 dBc IMD operating at +28VDC.



Specifications (Vsupply=+28V Vdc, Idq= 6A, Freq=170-230MHz)				
Parameter	Min.	Typ.	Max.	Unit
Frequency	170		230	MHz
Pout P1dB		125		Watts
Digital Pout, CW		50		Watts
Gain	19	20		dB
Pk-Sync	40	42		Watts
Gain Compression At 50W		0.1	0.2	Watts
Drain Current		6.0	6.5	Amps
IMD, NTSC @ 40W PK.-Sync	-54			dBc
Input VSWR		1.2:1	1.5:1	
F2/F3 Second Harmonic 50W	-50/-40	-45/-35		dBc
Baseplate Operating Temp.	0		+60	°C
Dimensions	2" x 4" x 1.5"			

## Features

- 40 Watts Pk-Sync @28V<sub>DC</sub> -54 dBc IMD
- 20 dB Gain
- No circuit tuning or RF assembly
- Temperature Compensated Bias

Maximum Ratings	
Parameter	Value
Input Voltage	+29 VDC
Bias Current	6.0 Amp
Drain Current	12 Amp
Load Mismatch	
All Phase angles,	5:1
Baseplate Temp	+70°C
Storage Temp	-40° - +105°C

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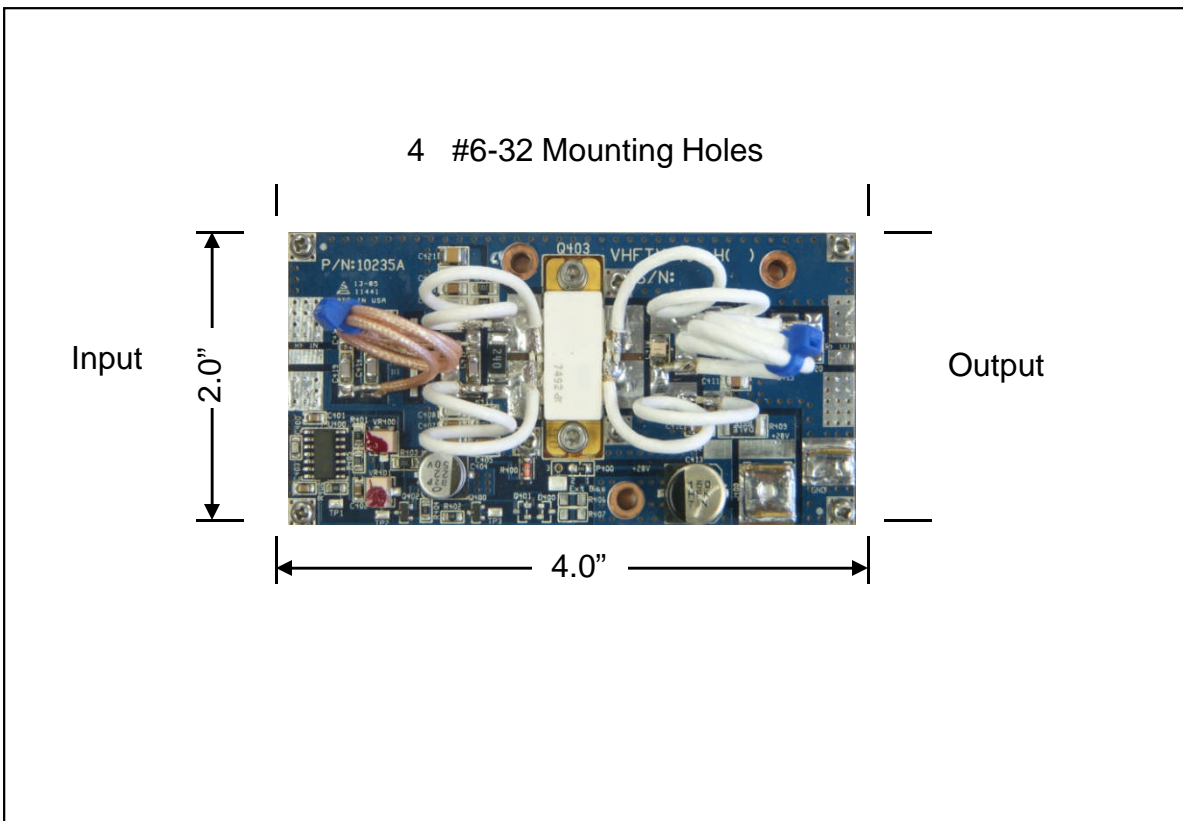
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Reference Circuit



Reference circuit size (not to scale)

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Revision History:	3/1/07	Data Sheet
Page 1 - Lowered Idq, P1db, Increased gain		05-12-08
Rev. 3	Product Name Change	03-09-09
Rev. 4	Update photos, Remove Out line	2-17-10

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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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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