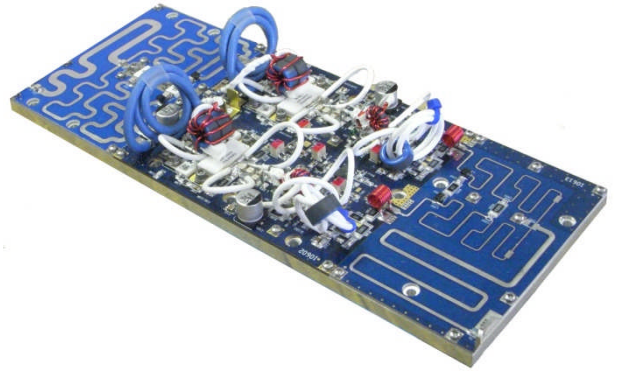




# CD2023

## 80-500 MHz – 250W Solid State Broadband High Power Pallet Amplifier

The PP80-500-250 is a 250W, Class A/AB High Gain Linear amplifier module for the 80 - 500 MHz band. Superior performance offering high gain, efficiency, and power using broadband matching techniques and the finest Gold MOSFET/LDMOS transistors available on the market today. Matched for 50 ohms input and output, the PP80-500-250 is a linear amplifier providing 250 watts typical P1dB making this the natural choice for your broadband application.



### Specifications

(Vsupply=+28V Vdc, Idq=3.0A, TBase=25°C) Pout = 250W

Parameter	Min.	Typ.	Max.	Unit
Frequency	80		500	MHz
Pout CW P1dB	200	250		Watts
Linear Power Out <small>AM SSB 5% dist max, 80% mod.</small>	50	65		Watts
IMD3 <small>100 to 500 MHz For 2 tones, 10kHz spacing, 250 W PEP</small>			-26	dBc
Power In		0.8	4	Watts
Gain	18	24		dB
Drain Current <small>250W CW</small>		20	24	Amps
Drain Current <small>65W CW, AM Mode</small>		12	14.5	Amps
Efficiency	35	45		%
Input VSWR		1.2:1	1.5:1	
Supply Voltage	26	28	32	Volt
Insertion □ Variation	+/-5			Unit to Unit
Gain Variation			+/-1.5	dB Unit to Unit
2 <sup>nd</sup> Harmonic		-30		dBc
3 <sup>rd</sup> Harmonic		-15		dBc
Dimensions	4.0" x 10." x 1.5"			

### Features

- 250 Watts P1dB Typ., Class A/AB
- 50 ohms input/output
- Bandwidth 100-500 MHz
- All Gold MOSFETS for Maximum Reliability

### Maximum Ratings

Parameter	Value
Supply Voltage	+32 VDC
Stable Oper. Voltage	+26 -32VDC
Bias Current	3.5 Amp
Drain Current	28.0 Amp
Load Mismatch Survival	5:1
Storage Temp	-20° - +85°C
Base Plate Op. Temp	60°C

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Tel: +1.775.883.1122 e-mail: [sales@pmtrf.com](mailto:sales@pmtrf.com) web: <http://www.pmtrf.com>

Specifications contained herein are subject to change without notice.

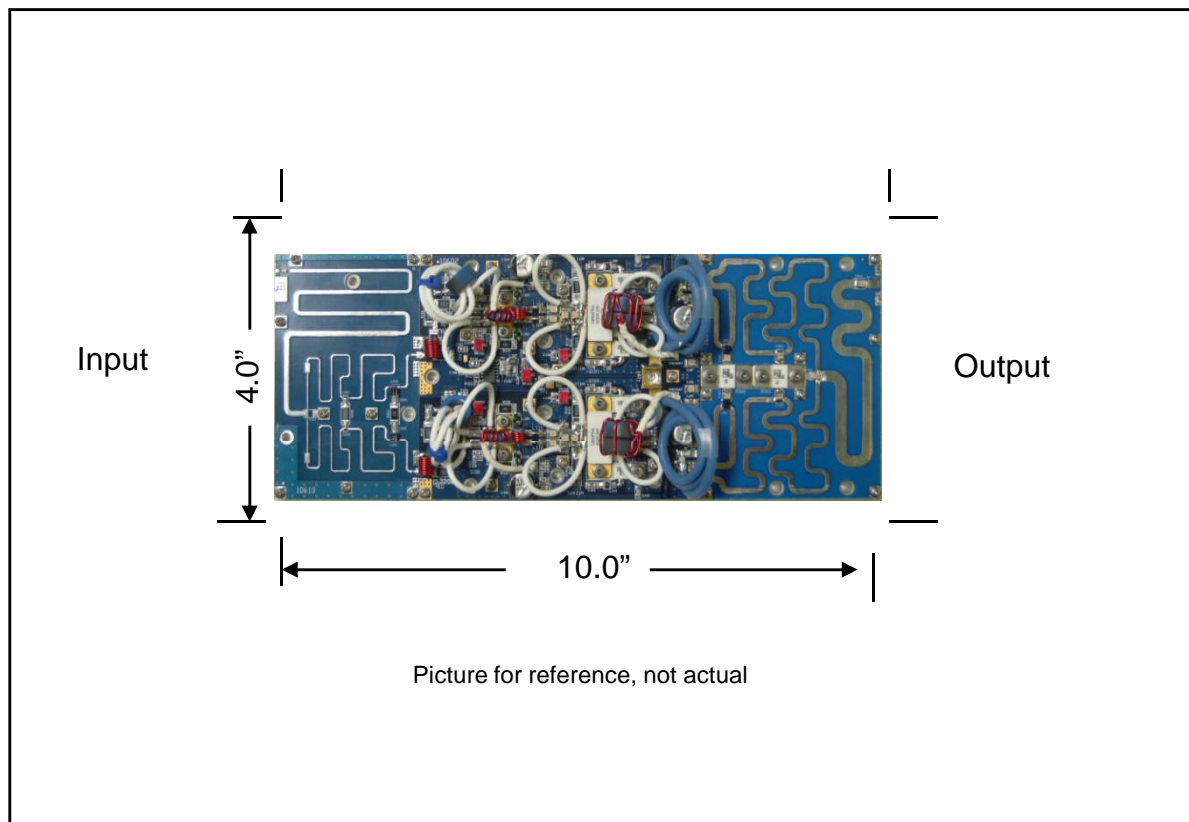
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**CD2023**  
**80-500 MHz – 250W**  
**Solid State Broadband**  
**High Power Pallet Amplifier**

Reference Circuit



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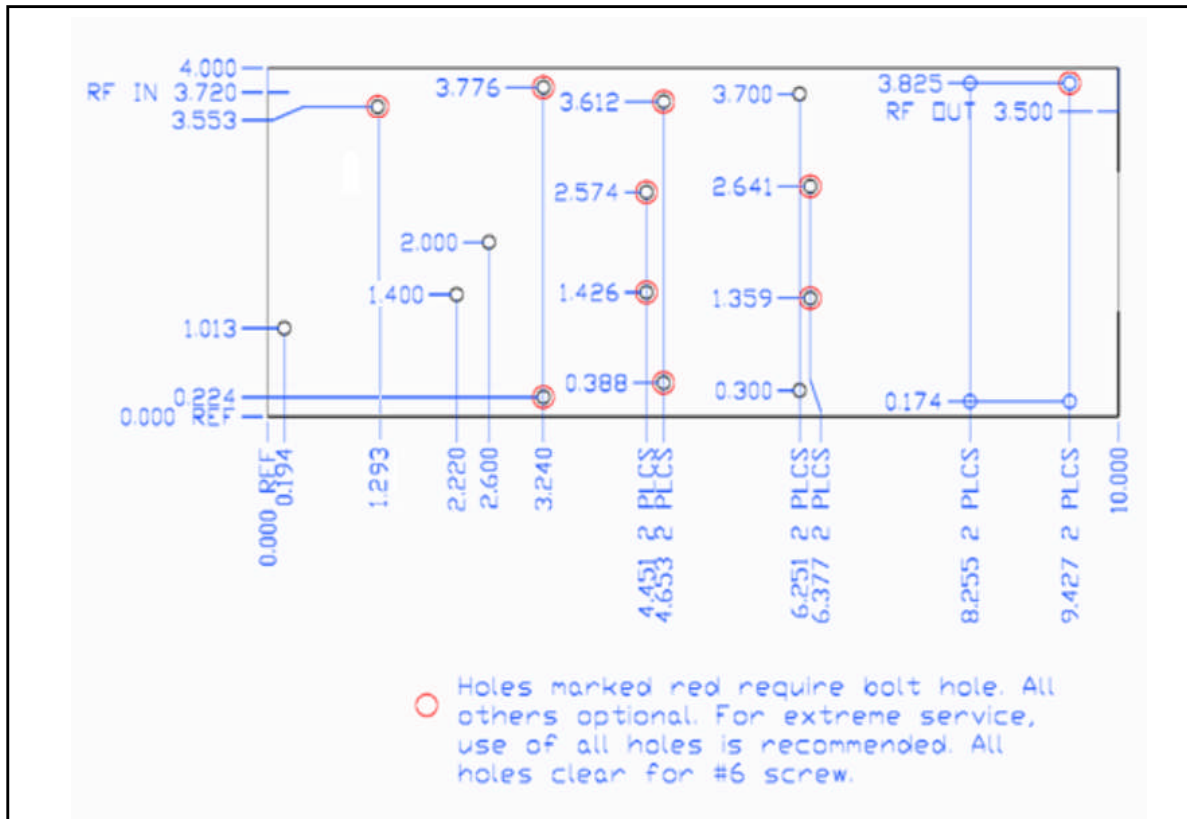
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## 80-500 MHz – 250W

### Solid State Broadband

### High Power Pallet Amplifier

#### Dimensions



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**High Power Pallet Amplifier**

Data Sheet

06/19/09

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](mailto: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

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