



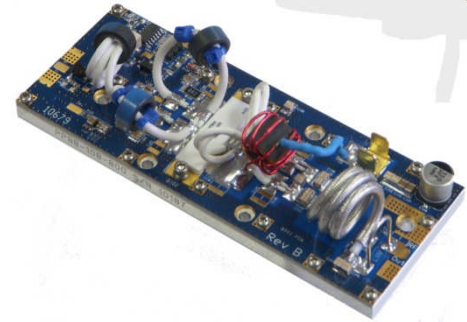
PP88-108-800

Full Band FM - 800W

Solid State Broadband

High Power Pallet Amplifier

The PP88-108-800 is a very high power Class B Pallet Amplifier providing 800 Watts CW Power output in an extremely small footprint. Featuring the latest generation LDMOS transistors, the PP88-108-800 provides the highest power density of any FM pallet in the world today. Thermal tracking bias allows the PP88-108-800 to operate Class B while providing 800 Watts CW with a typical efficiency of 83%!



Operating Specifications

(V_{supply}=+43V_{DC}; I_{DQ}=0.2A, T_{Base}=25°C)

Parameter	Min.	Typ.	Max.	Units
Power Out, CW	800			Watts
Power Gain	24	25		dB
Power In		2.5		Watts
Frequency	88		108	MHz
Drain Current		22.0		Amps
Efficiency	80	83		Percent
Input Return Loss			-14	dB
Insertion Phase Variation (Unit to Unit)		+/-5.0		Degrees
Gain Variation (Unit to Unit)		+/-1.0		dB
Second Harmonic		-30		dBc
Third Harmonic		-25		dBc
Baseplate Temperature	0		+70	°C
Dimensions	2.1"x 5.4"x 1.5"			

FEATURES

- 800 Watts CW
- 83% typical Efficiency
- Highest Power Density Available
- 50 Ohm input/output
- Thermal tracking Bias

Absolute Maximum Ratings

Parameter	Value
Input Voltage	+45V DC
Bias Current	1.0A
Drain Current	26A
Load Mismatch All Phase angles, Drain current limited to 26 A	3:1
Baseplate Temperature	+70°C

Power Module Technology • 3107 N. Deer Run Road, Suite 20, Carson City, Nevada 89701 USA.

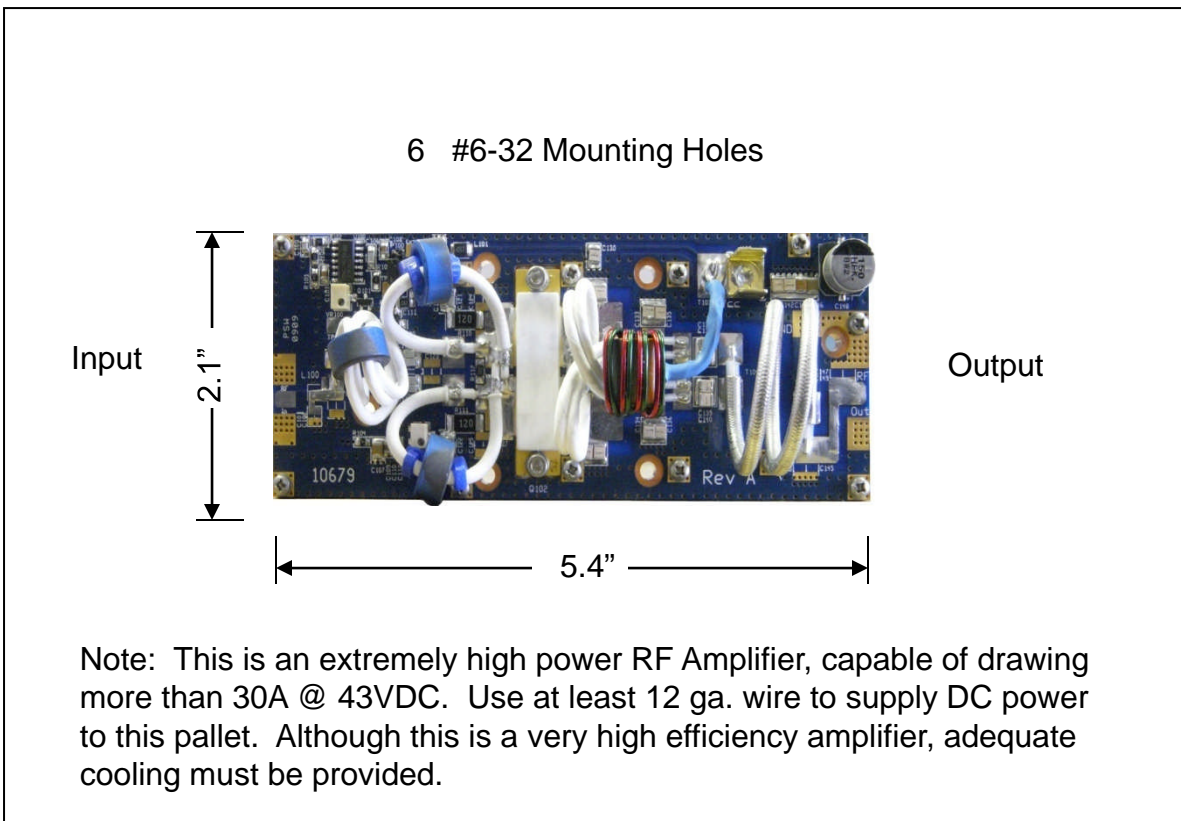
Tel: +1.775.883.1122 e-mail: sales@pmtrf.com web: <http://www.pmtrf.com>

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Reference Circuit



Reference circuit size (not to scale)

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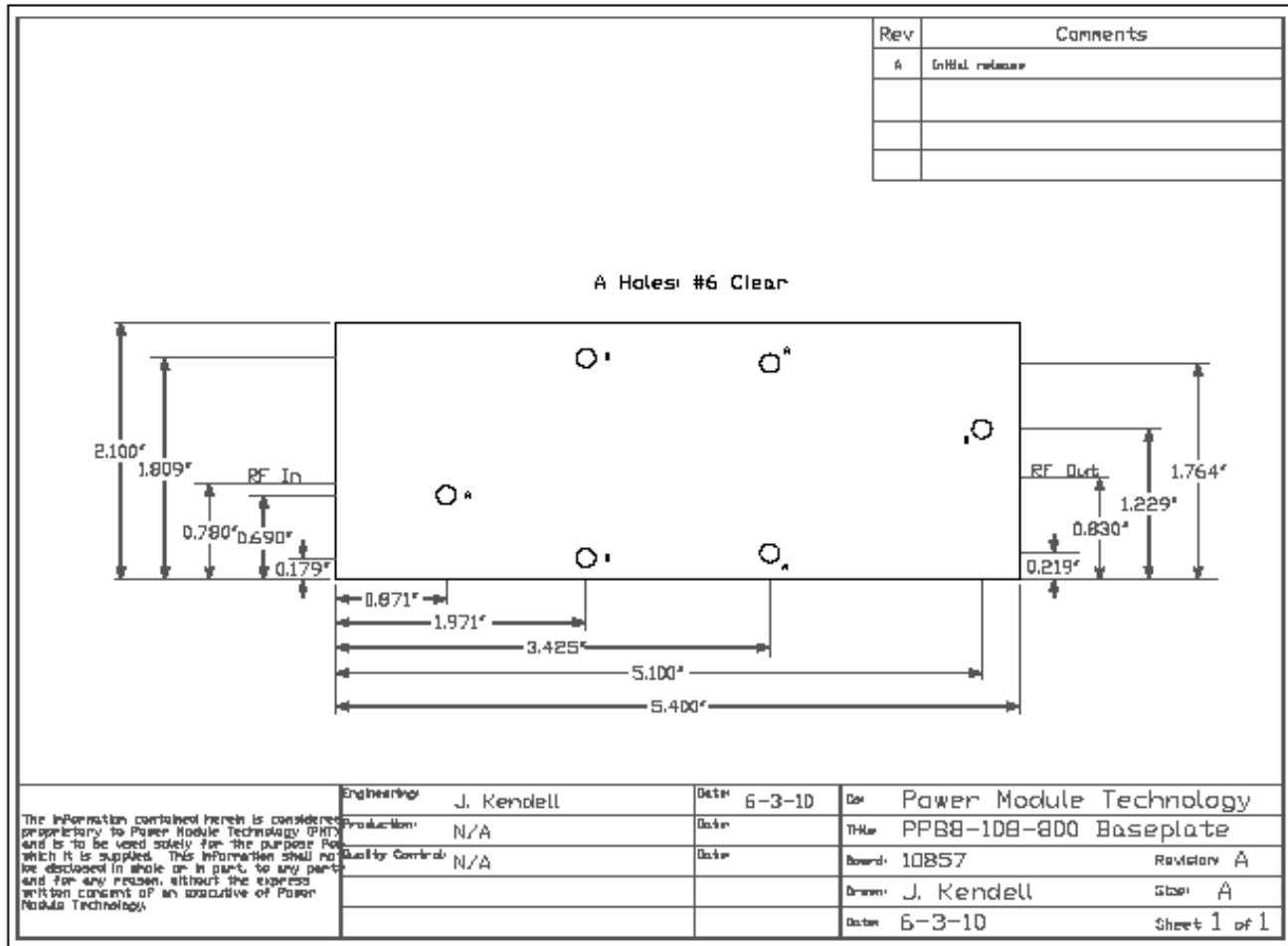
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