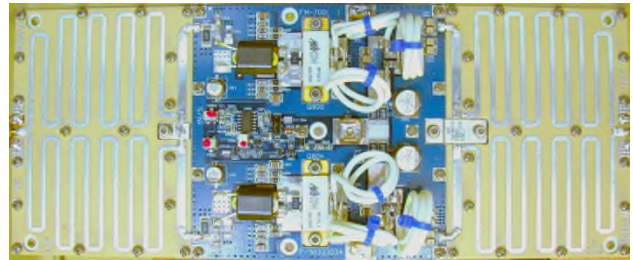




## PP88-108-700 Full Band FM – 700W Solid State Broadband High Power Pallet Amplifier

The PP88-108-700 is a Class AB Pallet Amplifier providing 700 Watts CW Power output. Featuring MOSFET Transistors, matched for 50-ohms input and output. Thermal tracking bias allows the FM-700 to operate Class AB providing 600 Watts PEP with typical 2-tone IMDs of -30dB, making it an excellent choice for the DAB market.



Operating Specifications (V <sub>supply</sub> =+50 V <sub>DC</sub> , I <sub>Dq</sub> =0.2A, T <sub>Base</sub> =25°C)				
Parameter	Min.	Typ.	Max.	Units
Power Out, CW	700			Watts
Power Gain	16	18		dB
Power In		11		Watts
Frequency	88		108	MHz
Drain Current		22		Amps
Efficiency	65	70		Percent
Input VSWR		1.5:1		
Insertion Phase		+/-5.0		Degrees
Gain Variation		+/-1.0		dB
Second Harmonic		-30		dBc
Third Harmonic		-14		dBc
IMD <sub>3</sub> , 2-Tone, 600W PEP Δf = 1 MHz		-30		dB
Baseplate Temperature	0		+60	°C
Baseplate Dimensions	10"x 4"x .5"			

- 700 Watts CW
- 50 Ohm input/output
- Thermal tracking Bias
- 600 Watts PEP,  
IMD<sub>3</sub> = -30dBc

Absolute Maximum Ratings	
Parameter	Value
Input Voltage	+55V DC
Bias Current	1.0A
Drain Current	28A
Load Mismatch All Phase angles, Drain current limited to 25 A	5:1
Baseplate Temperature	+60°C

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Specifications contained herein are subject to change without notice.

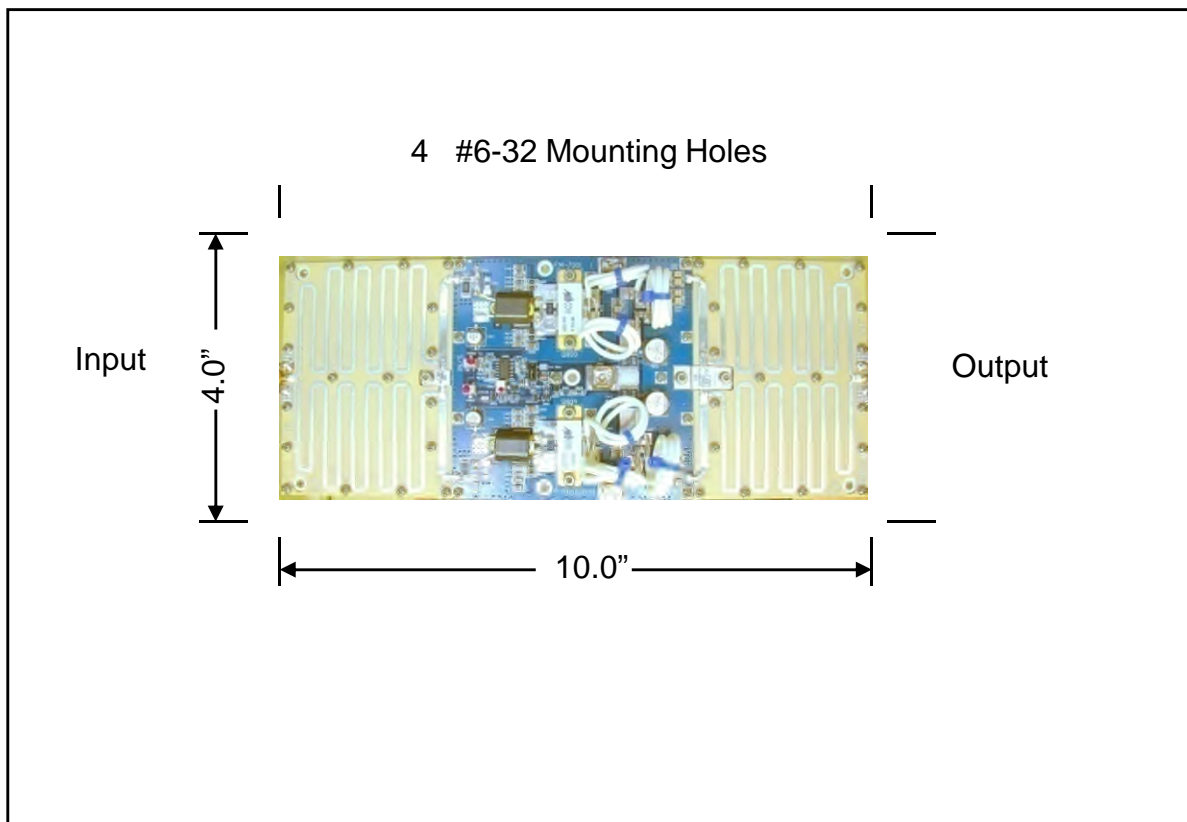
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**PP88-108-700**  
**Full Band FM – 700W**  
**Solid State Broadband**  
**High Power Pallet Amplifier**

Reference Circuit



Reference circuit size (not to scale)

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