



# PP88-108-300

## Full Band FM – 300W

### Solid State Broadband

### High Power Pallet Amplifier

The PP88-108-300 is a Class B Pallet Amplifier providing CW power output of 300 Watts. Featuring a rugged gold metalized MOSFET transistor, matched for 50-ohms input and output, the PP88-108-350 provides an excellent value for the transmitter integrator. Thermal tracking bias allows the PP88-108-350 to operate Class AB providing 300 Watts PEP making it a superior choice for the DAB market.



<b>Operating Specifications</b> (Pout=300 watts, Vsupply=+50 VDC, I <sub>Dq</sub> =0.2A, TBase=25°C)				
Parameter	Min.	Typ.	Max.	Units
Power Out, CW		300		Watts
Power Gain	16	18		dB
Power In		4.8		Watts
Frequency	88		108	MHz
Drain Current		10		Amps
Efficiency	55	60		Percent
Input VSWR			1.9:1	
Insertion Phase unit to unit		+/-5.0		Degrees
Gain Variation unit to unit		+/-1.0		dB
Second Harmonic		-40		dBc
Third Harmonic		-20		dBc
Baseplate Temperature	0		+60	°C
Baseplate Dimensions	2"x4"x1.5"			

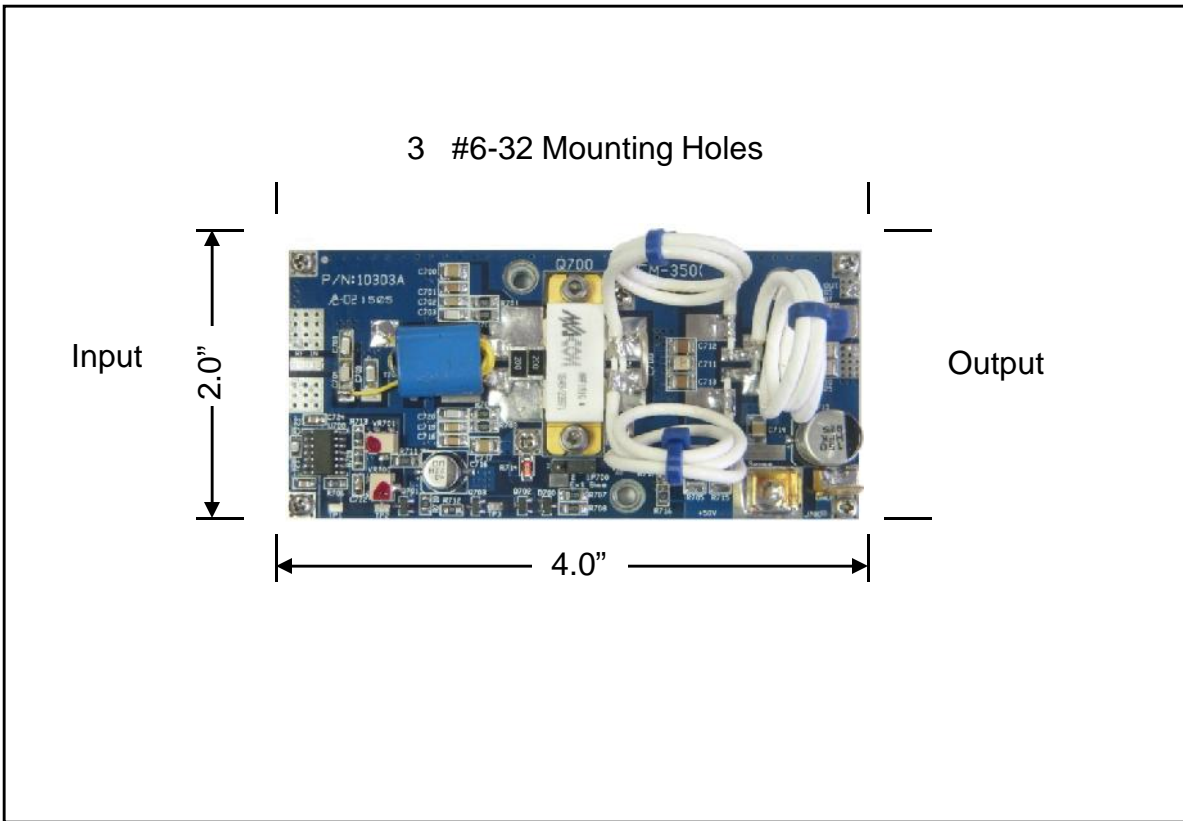
- 300 Watts Class B
- 50 Ohm input/output
- Thermal tracking Bias
- 300 Watts PEP class AB

<b>Absolute Maximum Ratings</b>	
Parameter	Value
Input Voltage	+52V DC
Bias Current	1.5A
Drain Current	12A
Load Mismatch All Phase angles, current limited to 13A for 3 sec.	3:1
Baseplate Temperature	+60° C



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Reference Circuit



Reference circuit size (not to scale)