PP88-108-800
Full Band FM - 800W
Solid State Broadband
High Power Pallet Amplifier

The PP88-108-800 is a very high power Class AB 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 AB while providing 800 Watts CW with a typical efficiency of 80%.

Operating Specifications
(Vsupply=+43V_{DC}, I_{Dq}=0.2A, TBase=25°C)

Parameter	Min.	Typ.	Max.	Units
Power Out, CW	800			Watts
Power Gain	22	24		dB
Power In		3.2		Watts
Frequency	88		108	MHz
Drain Current		25		Amps
Efficiency	75	80		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		-25		dBc
Third Harmonic		-12		dBc
Baseplate Temperature	0		+70	°C
Dimensions	2.1”x 5.4”x 1.5”			

FEATURES

- **800 Watts CW**
- **Highest Power Density Available**
- **50 Ohm input/output**
- **Thermal tracking Bias**

Absolute Maximum Ratings

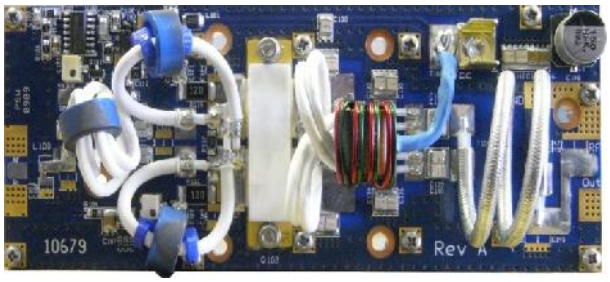
Parameter	Value
Input Voltage	+45V DC
Bias Current	1.0A
Drain Current	26A
Load Mismatch All Phase angles, Drain current limited to 30 A	3:1
Baseplate Temperature	+70°C

PP88-108-800
Full Band FM - 800W
Solid State Broadband
High Power Pallet Amplifier

Reference Circuit

6 #6-32 Mounting Holes

Input



Output

Note: This is an extremely high power RF Amplifier, capable of drawing more than 30A @ 43VDC. Use at least 12 ga. wire to supply DC power to this pallet. Although this is a very high efficiency amplifier, adequate cooling must be provided.

Reference circuit size (not to scale)