



AMP-700VHF POWER AMPLIFIER MODULE BOARD 700 W

Solid State Broadband High Power Pallet Amplifier 88-108 MHz, 700W. This amplifier is a Class C Pallet Amplifier providing 700 Watts CW Power output. This pallet features MOSFET Transistors and is matched for 50-ohms input and output. Thermal Tracking Bias allows the it to operate Class AB providing 600 Watts PEP with typical 2-tone IMD's of -30dB, making it ideal for the DAB market. Tested maximum RF power is over 780 W in C class.



- 700 Watts Class C
- 50 Ohm input/output
- Thermal tracking Bias
- 600 Watts PEP class AB

Technical Specifications	
Parameters	Value
Supply Voltage	+55Vdc
Bias Current	1.0A
Drain current	28A
Load Mismatch All Phase angles Id=13A 2 seconds maximum	5:1
Weight	1.2lbs
Dimensions:	10" x 4" x 0.5"
Electrical Specifications: (Vsupply = 50Vdc, Idq = .2A, TBASE = 25°C)	

Parameter	Min	Typ	Max	Units
Power Out, CW	700			Watts
Power Gain	16	18		dB
Power In		14		Watts
Frequency	88		108	MHz
Drain Current		22		Amps
Efficiency (Class C)	68	70		Percent
Input VSWR		1.2:1	1.5:1	
Insertion Phase		±5.0		Degrees
Gain Variation		±1.0		dB
2nd Harmonic		-50		dBc
3rd Harmonic		-24		dBc
IMD, 2-Tone, POPEP=300W (Class AB)	-28	-30		dB
Baseplate Temperature	0		+70	°C