

## CAP1000-2M

144-148 MHz,  
1200W CW, 1000W SSB

Solid State High Power RF Amplifier

The CAP1000-2M Is A 1000W, 100% Duty Cycle, All Mode, RF Pallet Amplifier For 2 Meters (144-148 MHz) That Offers Superior Performance With High Gain & Power. Mounted On A Copper Heat Spreader With A Gold Plated Printed Circuit Board, Utilizing The Latest 50V LDMOSFET Technology.



### Features:

- 1000 Watts All Mode
- 50 Ohm Input/Output
- Temp Compensated Bias
- 100% Duty Cycle
- Copper Heat Spreader
- Instant On Operation
- No Tuning Required

### Specifications: (CW)

VDC = 50, IDQ = 1.0A, Tbase = 25C

Parameter	Min.	Typ.	Max	Unit
Frequency	144		148	MHz
Pout P1DB		1000	1200	Watts
Gain		22.0		dB
IMD's @ 1000W PEP		-30.0		dBc
Power In		5.5		Watts
DC Current		29.4		Amps
Input VSWR		1.2:1		VSWR
Efficiency		65%		%
2 <sup>nd</sup> Harmonic		-30.0		dBc
3 <sup>rd</sup> Harmonic		-27.0		dBc
Baseplate Operating Temp		55.0	75.0	C
Size	4.0" x 7.8" x 1.5"			

Maximum Ratings	
Parameter	Value
Input Voltage	+52VDC
Bias Current	2.0 Amps
Drain Current	36.0 Amps
Load Mismatch	10:1
Baseplate Temp	+80C
Storage Temp	-40C - +105C
Note: IMD's Ref to either tone of a Two Tone test.	

## Communication Amplifiers, LLC