

CAP1000HF+6



**1.8-54MHz, 1000 Watt CW/PEP
Class AB Linear Amplifier**

The **CAP1000HF+6** is a 1.8-54MHz, 1KW, 100% duty cycle pallet amplifier, utilizing the latest 50V LDMOSFET technology.

Features

- 1000 Watts CW/PEP @ P1dB
- 50 Ohms input/output
- Temp compensated Bias
- Copper Heat Spreader
- Transistor Clamp
- No tuning

Specifications:

Vdc = +50Vdc, Idq = 1.0A, Baseplate = 25°C

Parameter	Min.	Typ.	Max	Unit
Frequency	1.8		54	MHz
Pout CW P1dB	900	1000	1200	Watts
Pin	2.0	1.6		Watts
Gain	25	28	30	dB
Current DC		31		Amps
Efficiency 1KW CW	60	64		%
Input VSWR		1.2:1	1.5:1	
Op Voltage DC	48	50	52	Volts
2 nd Harmonic		-35		dB
3ed Harmonic		-13		dB
Imd3 @ 900W PEP	-36	-39		dB

Maximum Ratings:

Parameter	Value
Input Voltage	+52VDC
Bias Current	2.0 Amp
Drain Current	23.0 Amp
Load Mismatch	10:1
Baseplate Temp	+70°C
Storage Temp	-40°C - +105°C

NOTE: Pallet must be mounted to an appropriate heat sink with air flow through the heat sink and over the top of the pallet to cool transformers.

Size: 3.475x6.250x2.500

Communication Amplifiers, LLC