

CAP800-70cm

440-450 MHz - 800 Watt
Pallet Amplifier

The CAP800-70cm is an 800 Watt, 100% duty cycle, All Mode pallet amplifier for 70cm (420-450MHz). This pallet is built on a copper heat spreader with a Gold plated printed circuit board, utilizing the latest 50V LDMOSFET technology. Like the amplifiers used in the Broadcast industry this pallet is designed for continuous 100% duty cycle.



Features

- 800 Watts All Mode
- 50 Ohms input/output
- Temp compensated Bias
- 100% Duty Cycle
- Copper Heat Spreader
- No tuning

Specifications:

Vdc=+50, Idq=1.0A, Tbase=25°C

Parameter	Min.	Typ.	Max	Unit
Frequency	420		450	MHz
Pout P1dB		500	1000	Watts
Gain		20		dB
Power in			8.0	Watts
DC current		27		Amps
Input VSWR			1.2:1	
Efficiency		60		%
2nd Harmonic		-27		dBc
3rd Harmonic		-16		dBc
Baseplate Operating Temperature	0		75	°C
Size	4.0" x 7.8" x 1.5"			

Maximum Ratings

Parameter	Value
Input Voltage	+52VDC
Bias Current	2.0 Amp
Drain Current	36.0 Amp
Load Mismatch	10:1
Baseplate Temp	+80°C
Storage Temp	-40°C - +105°C

Communication Amplifiers, LLC