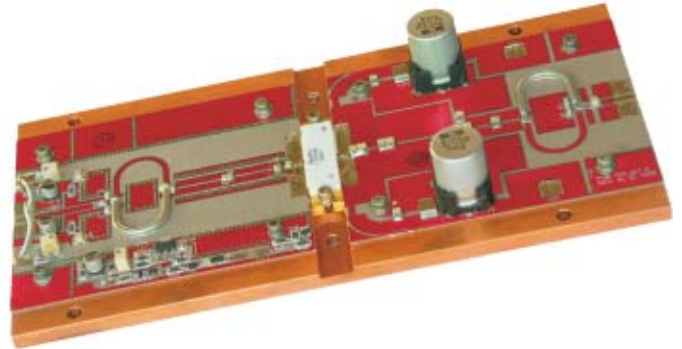


## CAP185DU

470-860 MHz, 185 Watt ATSC  
Digital Pallet Amplifier

The CAP185DU is a 185W ATSC DIGITAL pallet amplifier for UHF TV (470-860 MHz), utilizing the latest 50V LDMOSFET technology. This pallet will deliver 185 Watts RMS with -40dB shoulders uncorrected.



### Features

- 185 Watts ATSC @ -40dB
- 50 Ohms input/output
- Temp compensated Bias
- 500 Watts PEP @ P1dB
- No tuning

### Maximum Ratings

Parameter	Value
Input Voltage	+52VDC
Bias Current	1.5 Amp
Drain Current	15.0 Amp
Load Mismatch	5:1
Baseplate Temp	+60°C
Storage Temp	-40°C - +105°C

### Specifications:

Vdc = +50, Idq = 1.3A, Tbase = 25°C

Parameter	Min.	Typ.	Max	Unit
Frequency	470		860	MHz
Pout P1dB		500		Watts PEP
Pout ATSC		185		Watts RMS
Gain		18		dB
Power in		2.9	3.2	Watts
DC current		11.8		Amps
Input VSWR		1.8:1	2.0:1	
Efficiency	28	31		%
2nd Harmonic		-25		dBc
3rd Harmonic		-20		dBc
Baseplate Operating Temperature	0		60	°C
Size	4.0" x 7.8" x 1.5"			

### Communication Amplifiers, LLC