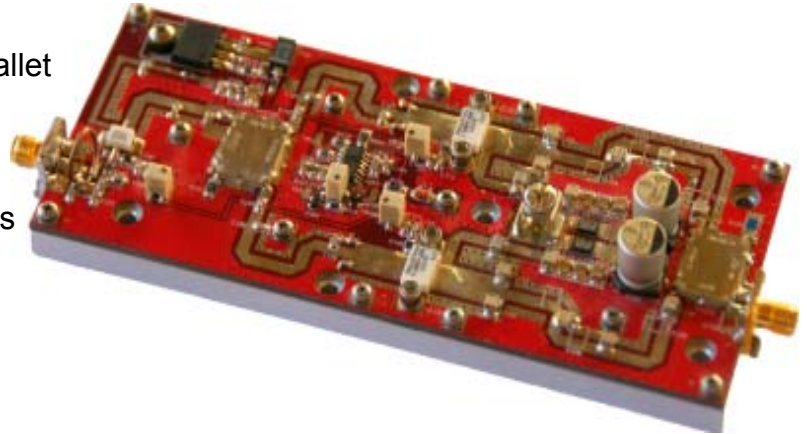


CAP30DU

470-860 MHz, 30 Watt ATSC
Digital Driver Pallet Amplifier

The CAP30DU is a 30W ATSC DIGITAL pallet amplifier for UHF TV (470-860 MHz), utilizing the latest 50V LDMOSFET technology. When used as a driver it will deliver 30 Watts RMS with -52dB shoulders uncorrected or as an output stage 60 Watt RMS with -40dB shoulders.



Features

- 30 Watts ATSC @ -53dB
- 50 Ohms input/output
- Temp compensated Bias
- 280 Watts PEP @ P1dB
- No tuning

Maximum Ratings

Parameter	Value
Input Voltage	+52VDC
Bias Current	3.0 Amp
Drain Current	5.0 Amp
Load Mismatch	10:1
Baseplate Temp	+70°C
Storage Temp	-40°C - +105°C

Specifications:

Vdc = +50, Idq = 2.50A, Tbase = 25°C

Parameter	Min.	Typ.	Max	Unit
Frequency	470		860	MHz
Pout P1dB		280		Watts PEP
Pout ATSC		30		Watts RMS
Gain		38		dB
Power in		6.8	7.3	dBm
DC current		2.7		Amps
Input VSWR		1:5:1	1:8:1	
Efficiency	20	30		%
2nd Harmonic		-25		dBc
3rd Harmonic		-20		dBc
Baseplate Operating Temperature	0		60	°C
Size	2.5" x 6.0" x 1.0"			

Communication Amplifiers, LLC