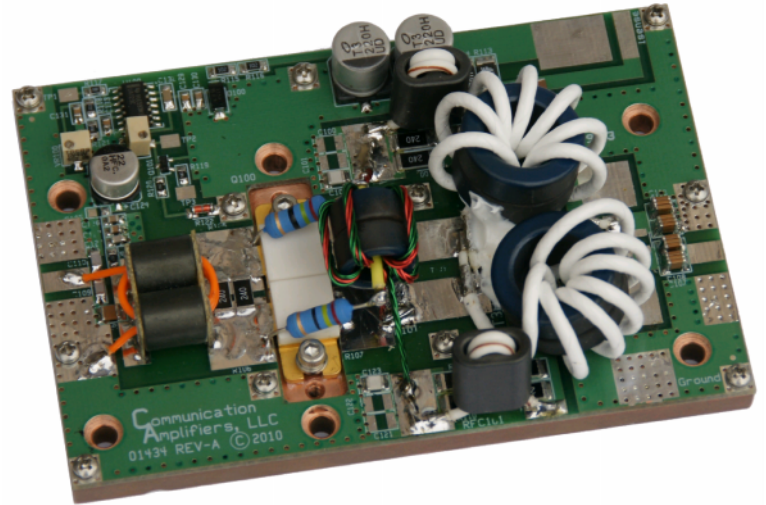


CAP300-10110

10-110 MHz - 300 Watt
Solid State Pallet

The CAP300-10110 is a 300W 10-110 MHz broadband pallet amplifier, offering outstanding performance and reliability. The heart of this pallet is the NXP BLF278 50V RF power MOSFET providing high gain and RF power output in a small 3" x 4.5" x 1.25" footprint. The advanced Thermal Tracking bias circuitry allows for operation in Class A or AB with stable gain over tempature.



Features

- 300 Watts Class AB
- Thermal tracking Bias
- Broadband RF no tuning
- Copper Heat Spreader

Specifications:

Vsup=+50Vdc, Idq=1.0A, Tbase=25°C

Maximum Ratings

Parameter	Value
Input Voltage	+55VDC
Bias Current	3.0 Amp
Drain Current	15.0 Amp
Load Mismatch all Phase angles	5:1
Baseplate Temp	+70°C
Storage Temp	-40°C - +105°C

Parameter	Min.	Typ	Max.	Unit
Frequency	.5		10	MHz
Pout CW (P1dB)	300	325		Watts
Power In			4.8	Watts
Gain		18		dB
Drain Current		10	12	Amps
Efficiency	50	60		%
Input VSWR		1.5:1	1.8:1	
Op Voltage	48	50		Volt
2nd Harmonic		-35		dBc
3rd Harmonic		-15		dBc
IMD ₃ , 2 Tone		-30	-28	dBc