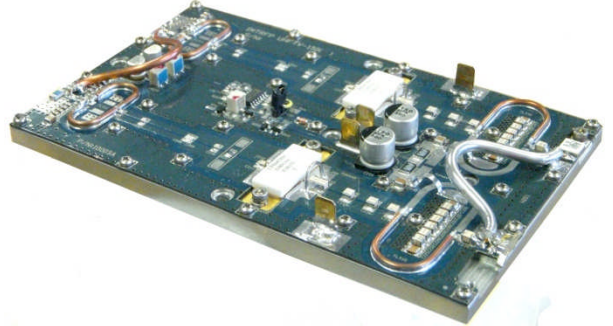




PP470-860-150

Full band UHF– 150W Solid State Broadband High Power Pallet Amplifier

The PP470-860-150 is a 150W pallet amplifier for the 470-860 MHz band. This Linear Class AB pallet amplifier features Gold LDMOS transistors providing typical Peak-Sync output power of 150W. 50 Ohms input and output allows this pallet amplifier to be used as both an output PA with 150W of output power or as a driver with 70W of output power. Thermal tracking allows for superior performance in providing high gain, efficiency, and power in a small pallet footprint, making this a great choice for your television applications



Specifications

(Vsupply=+28V Vdc, Idq=1.6A, T_{Base}=25°C)

Parameter	Min.	Typ	Max.	Unit
Frequency	470		860	MHz
Pout P1dB	160	195		Watts
Linear Power Out, Pk Sync	150	180		Watts
Gain	12	13		dB
Power In		5	8	Watts
Drain Current Pout=180W Pk Sync		14		Amps
Input VSWR		1.2:1	1.5:1	
2 nd Harmonic		-20		dBc
3 rd Harmonic		-35		dBc
Baseplate Operating Temp.	0		+70	°C
Size	6.2" x 3.8" x 1.0"			

Features

- 50 Watts Class AB
- 150W Pk-Sync @ -54dBc IMD's
- 70W Pk-Sync @ -60dBc IMD's
- 13 dB Gain
- 38 Watts (avg) Digital Power out
- Selectable internal/external Bias

Maximum Ratings

Parameter	Value
Input Voltage	+34 VDC
Bias Current	3.0 Amp
Drain Current	16 Amp
Load Mismatch All Phase angles	3:1
Baseplate Temp	+70°C
Storage Temp	-40° - +105°C

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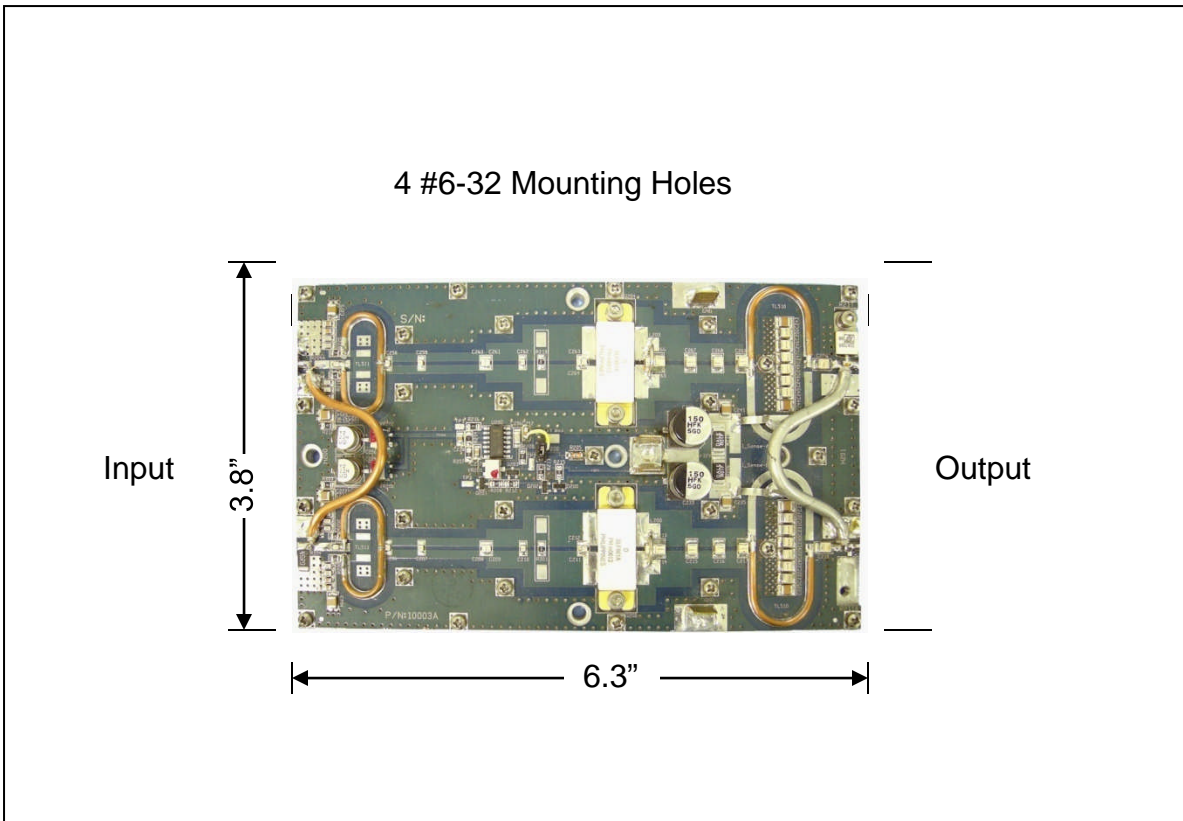
PP470-860-150

Full band UHF – 150W

Solid State Broadband

High Power Pallet Amplifier

Reference Circuit



Reference circuit size (not to scale)

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