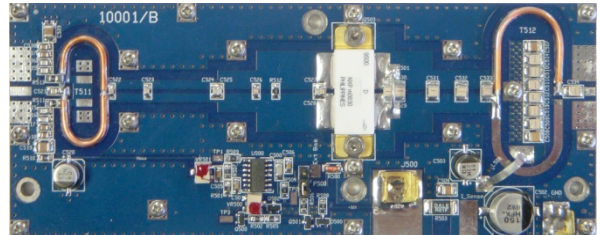




# HD28076-50

## Full Band UHF TV Solid State Broadband High Power Pallet Amplifier

The HD28076-50 is a 50W pallet amplifier for the 470-860 MHz band. This linear Class AB pallet amplifier features Gold Metallized LDMOS transistors providing typical Peak-Sync output power of 50W. Thermal tracking allows for superior performance, providing excellent linearity, and high power in a small pallet footprint, making this a great choice for your broadcast television applications.



### Specifications

(Vsupply=+28V Vdc, Idq=1.0A, T<sub>Base</sub>=25°C)

Parameter	Min.	Typ	Max.	Unit
Frequency	470		860	MHz
Pout P1dB	125	150		Watts
Linear Power Out Pk. Sync. @ -54 dBc IMDs		50		Watts
Gain	11.5	13		dB
Power In		2.5		W
Drain Current Pout=50W Pk. Sync.		4.0		Amps
Input Return Loss		-10		dB
IMD <sub>3</sub> , 50W PEP 2 tone, Δf=1.0 MHz		-40		dBc
2 <sup>nd</sup> Harmonic		-30		dBc
3 <sup>rd</sup> Harmonic		-50		dBc
Baseplate Operating Temp.	0		+60	°C
Size	2.4"x6.0"x1.0"			

### Features

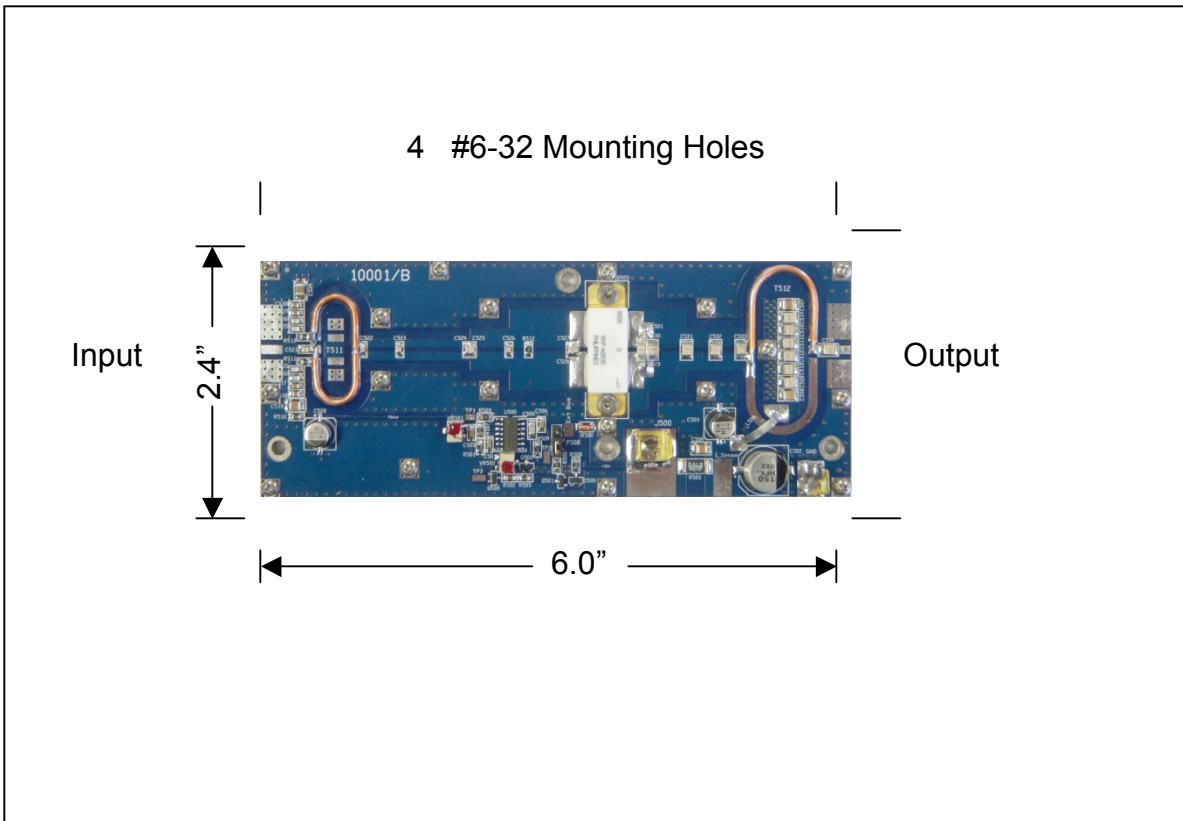
- 150W P1dB
- 50W Pk-Sync @ -54dBc IMD<sub>3</sub>
- 13 dB Gain
- 16 Watts (avg.) Digital Power out
- Selectable internal/external Bias

### Maximum Ratings

Parameter	Value
Input Voltage	+32 VDC
Bias Current	2.0 Amp
Drain Current	10 Amp
Load Mismatch	3:1
All Phase angles current limited to 8 amps.	
Baseplate Temp	+60°C
Storage Temp	-40° - +105°C

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Reference Circuit



Reference circuit size (not to scale)