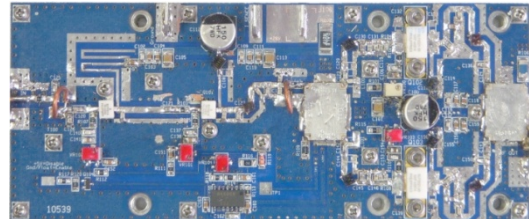




HD28076-10

Full Band UHF TV – 10W Solid State Broadband High Power Pallet Amplifier

The HD28076-10 is a 10W pallet amplifier for the 470-860 MHz band. This Class A pallet amplifier utilizes three Gold MOSFET gain stages providing typical power gain of 39 dB at 10 Watts Peak-Sync. A Quadrature combined output provides an excellent match for the pallet when integrating into a 50 Ohm System. 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=2.7A, T_{Base}=25°C)

Parameter	Min.	Typ	Max.	Unit
Frequency	470		860	MHz
Pout P1dB	10	19		Watts
Linear Power Out, Pk Sync	10	12		W
Gain		39		dB
Power In		+1.8		mW
Drain Current Pout=10W Pk Sync		2.7		Amps
Input VSWR		1.2:1	1.5:1	
2 nd Harmonic		-30		dBc
3 rd Harmonic		-20		dBc
Baseplate Operating Temp.	0		+70	°C
Size	2.5"x6.0"x.7"			

Features

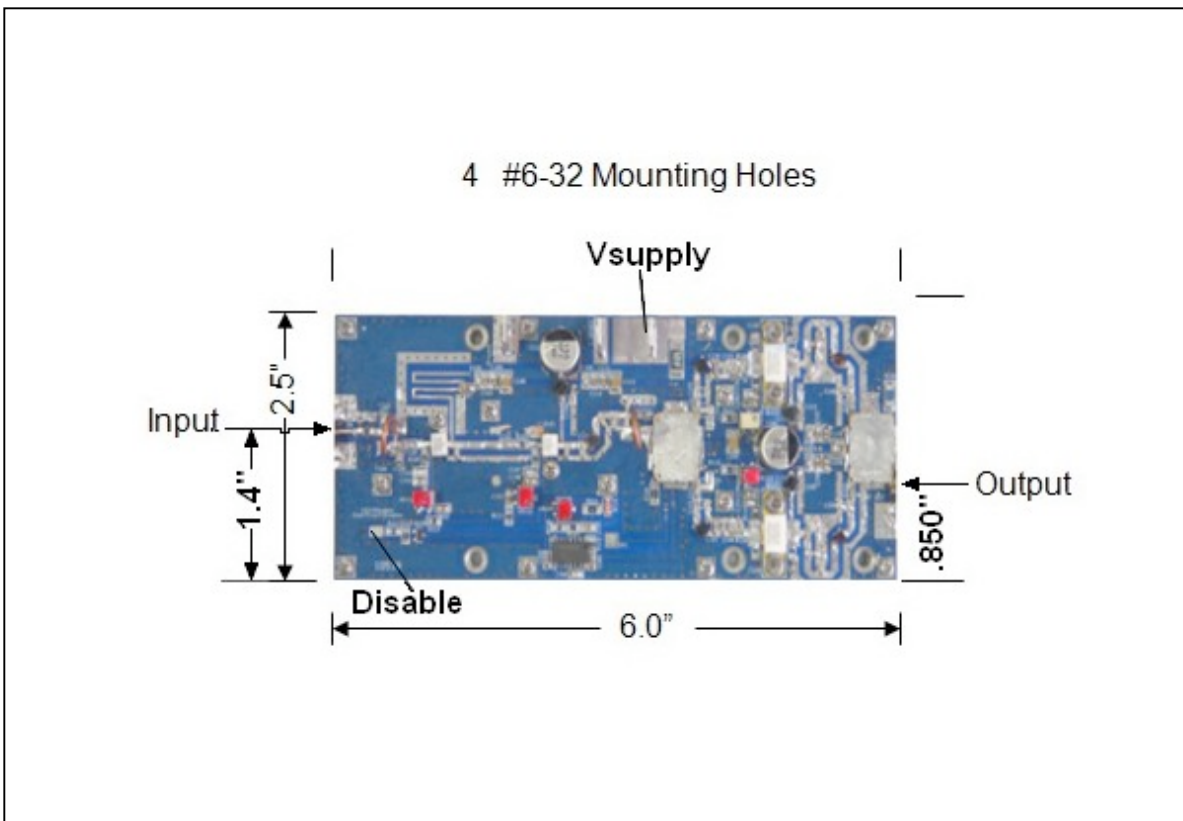
- 10 Watts Class A
- 50 ohms input/output
- No circuit tuning or RF assembly
- 12 Watts Pk-Sync @ -54dB IMD
- 2.5 Watts (avg) Digital Power out

Maximum Ratings

Parameter	Value
Input Voltage	+32 VDC
Bias Current	.25 Amp
Drain Current	3.0 Amp
Load Mismatch All Phase angles	5:1
Baseplate Temp	+70°C
Storage Temp	-40° - +105°C

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Reference Circuit



Reference circuit size (not to scale)