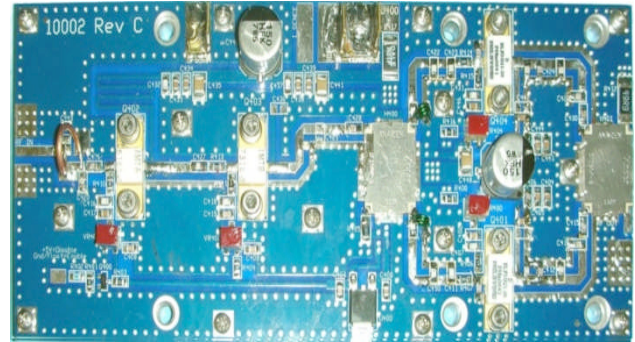




HD28076-30 470-860 MHz – 30W Solid State Broadband High Power Amplifier Pallet

The HD28076-30 is a 30W pallet amplifier for the 470-860 MHz band. This class AB amplifier pallet utilizes three Gold MOFSET gain stages providing typical power gain of 42 dB at 36 Watts P1dB. A Quadrature combined output provides an excellent match for the pallet when integrating into a 50 Ohm system. Superior performance providing high gain, efficiency, and power in a small pallet footprint, makes this amplifier a great choice for UHDTV Broadcast applications.



Specifications (Vsupply=+28V Vdc, Idq=1.2A, T _{Base} =25°C)				
Parameter	Min	Typ	Max.	Unit
Frequency	470		860	MHz
Pout P1dB	30	36		Watts
Linear Power out Pk-Sync	16	20		Watts
Gain	40	42		dB
Power In			4.7	dBm
Efficiency		28		%
Input VSWR		1.2:1	1.5:1	
2 nd Harmonic		-20		dBc
3 rd Harmonic		-40		dBc
Baseplate Operating Temp.	0		+60	°C
Size	2.5" x 6.0" x 0.7"			

Features

- 30 Watts, P1dB
- 20 Watts typ. Pk-Sync @-40 dB IMD3
- 10 Watts typ. (avg.) Digital Power out
- Class A driver, Class AB Linear output stage
- 44 dB Gain Typ. Full UHF Band
- 50 ohms input/output
- All Gold MOSFETS for Max. reliability
- No circuit tuning or RF assembly

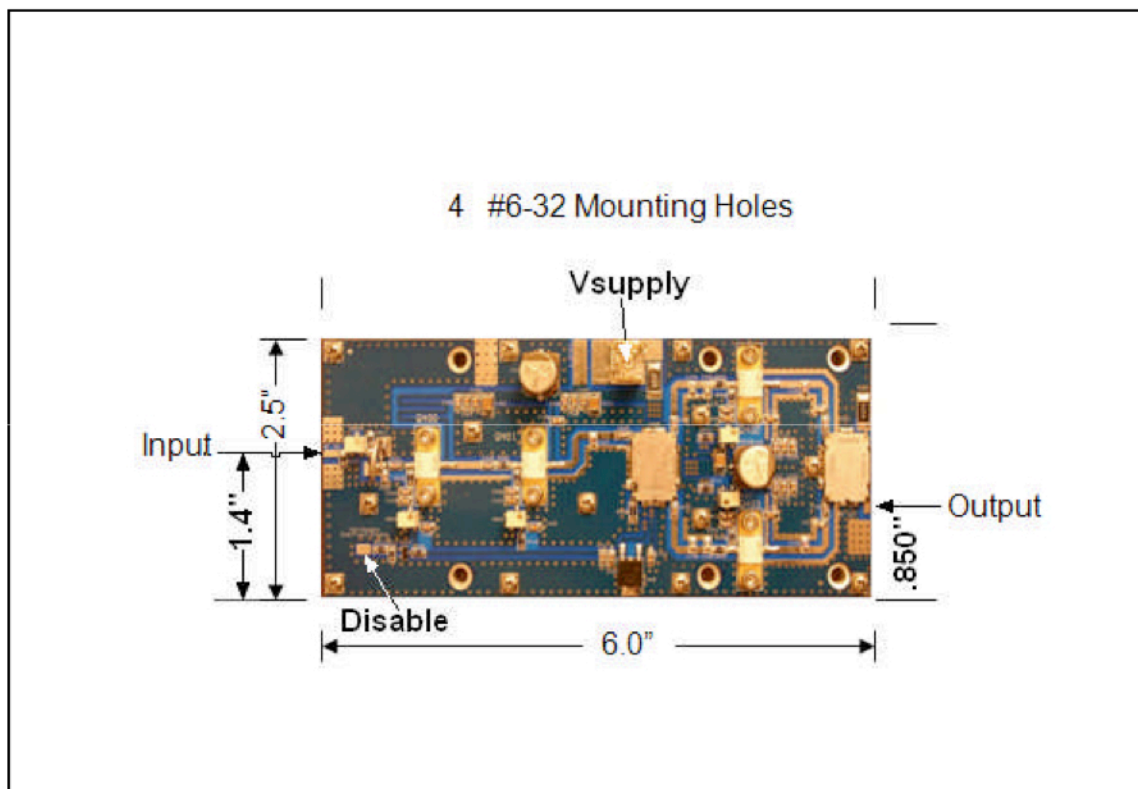
Maximum Ratings	
Parameter	Value
Input Voltage	+32 VDC
Bias Current	3.0 Amp
Drain Current	3.0 Amp
Load Mismatch, All Phase Angles	5:1
Baseplate Temp	+60°C
Storage Temp	-40° -+10°C

HD Communications Corp.
2180 Fifth Avenue, Unit 4, Ronkonkoma, NY 11779
Tel: (631) 588-3877 Fax: (631) 588-3879 Email: sales@rfamplifiers.com



HD28076-30
470-860 MHz – 30W
Solid State Broadband
High Power Amplifier Pallet

Reference Circuit



Reference circuit size (not to scale)

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