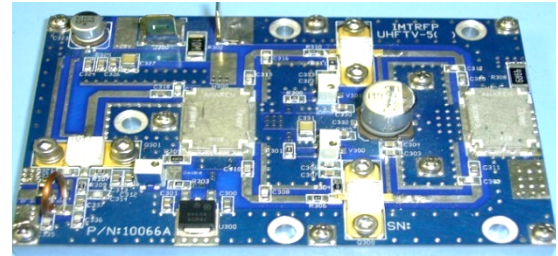




HD28076-5

Full Band UHF TV – 5W Solid State Broadband High Power Amplifier Pallet

The HD28076-5 is a 5W pallet amplifier for the 470-860 MHz band. This Class A pallet amplifier utilizes three Gold MOSFET gain stages providing typical power gain of 26 dB at 5 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=1.2A, T_{Base}=25°C)

Parameter	Min.	Typ	Max.	Unit
Frequency	470		860	MHz
Pout P1dB		10		Watts
Linear Power Out, Pk Sync	5	7		Watts
Gain	25	26		dB
Power In			15.85	mW
Drain Current Pout=10W Pk Sync		1.2		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"x3.8"x.7"			

Features

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

Maximum Ratings

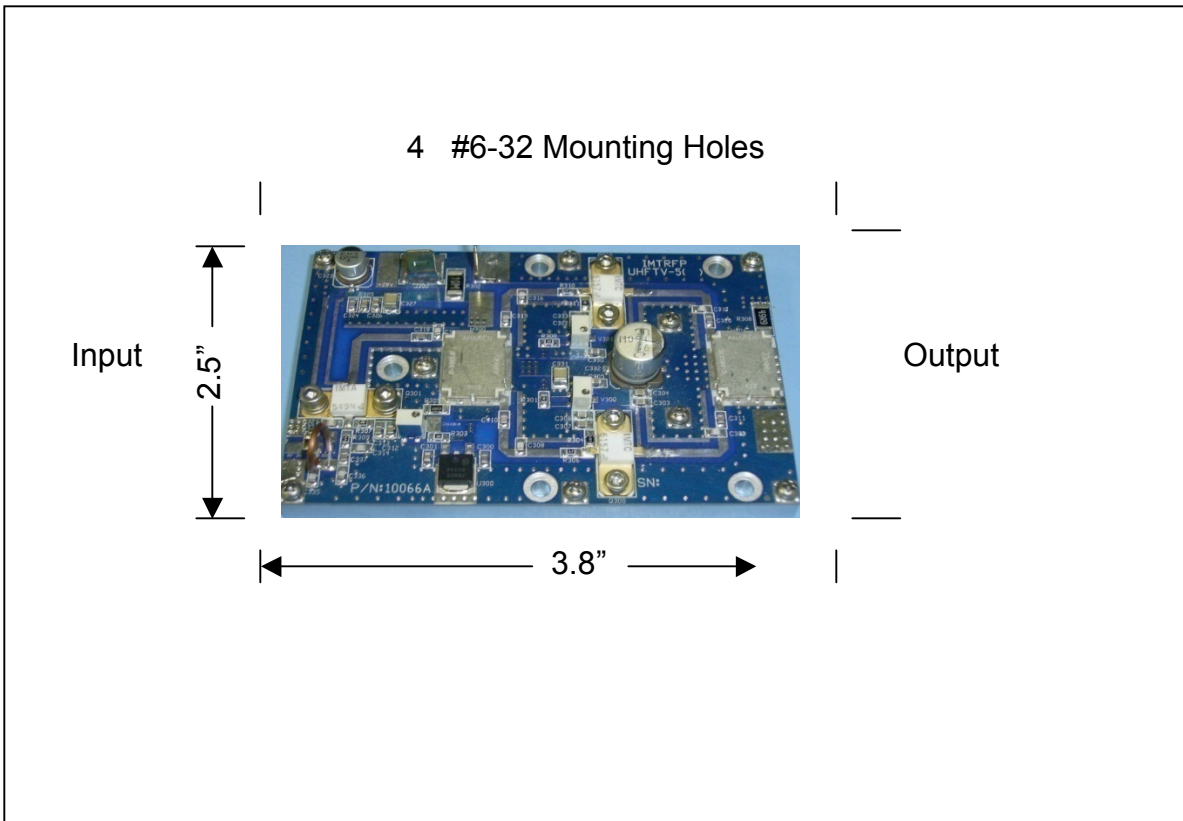
Parameter	Value
Input Voltage	+32 VDC
Bias Current	.5 A/ea
Drain Current	1.3 Amp
Load Mismatch All Phase angles	∞:1
Baseplate Temp	+70°C
Storage Temp	-40° - +105°C

HD Communications Corp.

2180 Fifth Avenue, Unit 4, Ronkonkoma, NY 11779

Tel: (631) 588-3877 Fax: (631) 588-3879 Email: sales@rfamplifiers.com

Reference Circuit



Reference circuit size (not to scale)

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