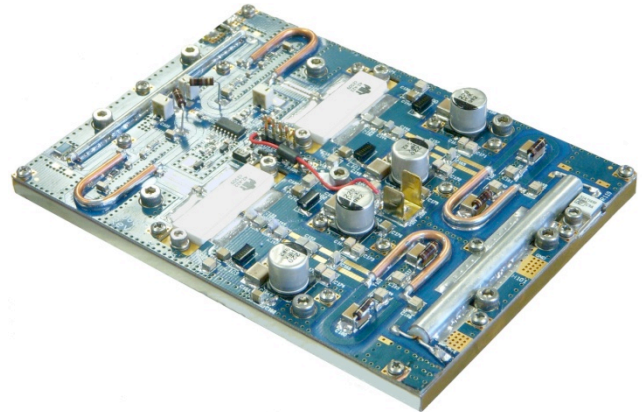




HD28076-1000

Full Band UHF TV 250W Digital Average Power Solid State Broadband High Power Pallet Amplifier

The HD28076-1000 is a high power Linear Class AB pallet amplifier featuring the latest generation LDMOS transistors, covering the entire UHF TV band. The PP470-860-1000 can be used as an output PA @ 250W of DVB-T Average Digital Output Power, shoulder ≤ -29 dBc. Note: This pallet is not designed for analog service. Please refer to our HD28076-600 for analog Broadcast Applications.



Operating Specifications (Freq. = 470-860 MHz V Supply = +50V _{DC} , I _{BQ} = 2.8 A, T _{Base} = 25°C)				
Parameter	Min	Typ.	Max	Units
Power Out, Digital Average Power DVB-T		250		Watts
Power Gain		17		dB
Efficiency @ 250 W average digital power		29		%
Input Return Loss			- 14	dB
Insertion Phase Variation (Unit to Unit)		+/- 5.0		Degrees
Gain Variation (Unit to Unit)		+/- 1.0		dB
Gain Flatness		+/- 1.5		dB
Second Harmonic		-20		dBc
Third Harmonic		-25		dBc
Shoulder @ 250W Avg Digital Pwr – DVB-T		-29		dBc
Baseplate Temp.	0		+60	°C
Dimensions	3.8" x 7.0" x 1.0"			

Features

- 250 Watts Digital Average Power
- 1000 Watts Peak Digital Power
- Latest Generation LDMOS Transistors
- Channel 14-69: 470-860 MHz
- 50 ohms input/output
- Thermal Tracking Bias
- No circuit tuning or RF assembly

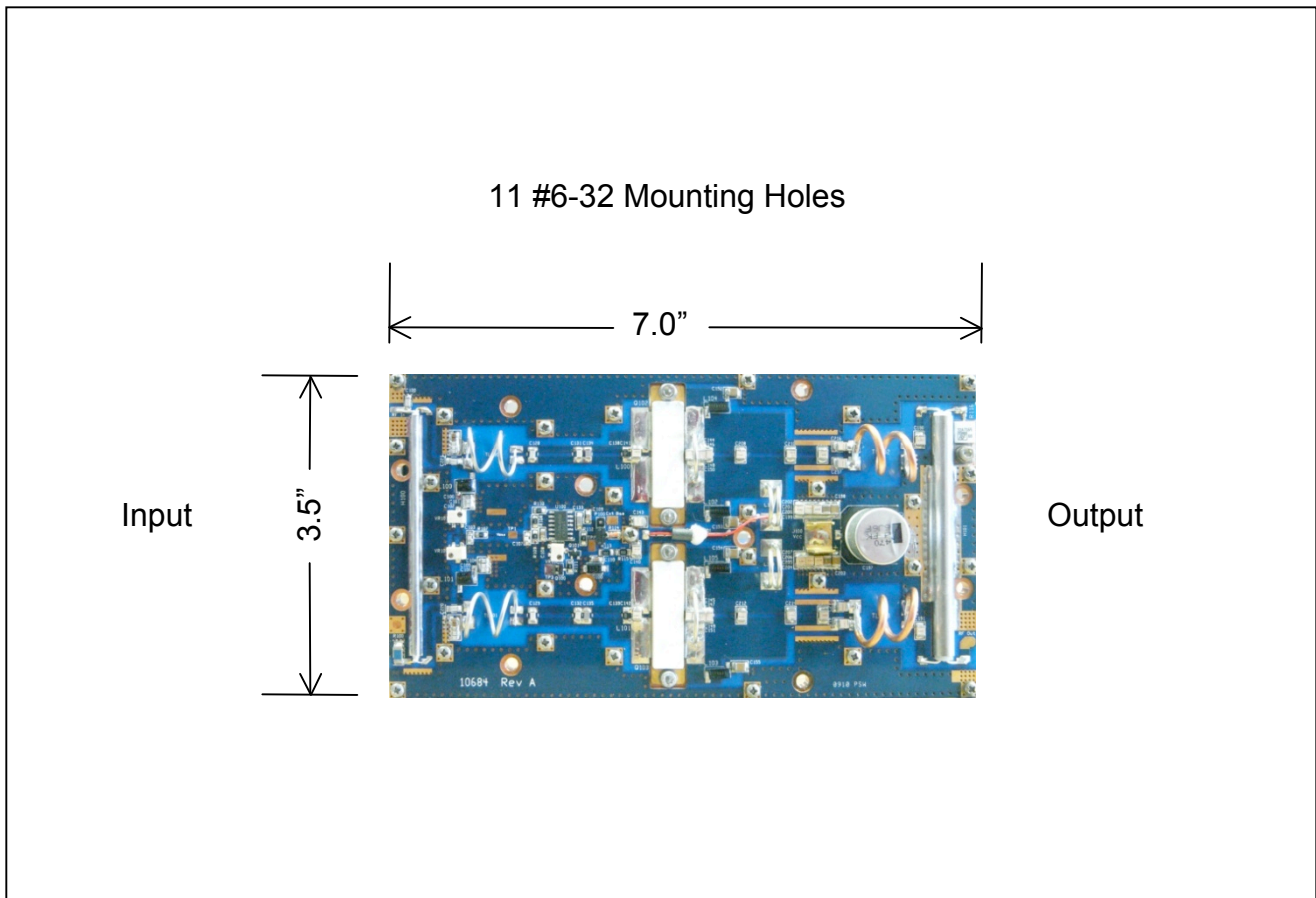
Maximum Ratings	
Parameter	Value
Input Voltage	+52VDC
Bias Current	4.0 Amp
Drain Current	22.0 Amp
Load Mismatch	3:1
All Phase angles, 2 Seconds maximum current limited to 22A max.	
Baseplate Temp	+60°C
Storage Temp	-40° - 105°C

HD Communications Corp.
2180 Fifth Avenue, Unit 4, Ronkonkoma, NY 11779
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250W Digital Average Power
Solid State Broadband
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Dimensions



Reference circuit size (not to scale)

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