



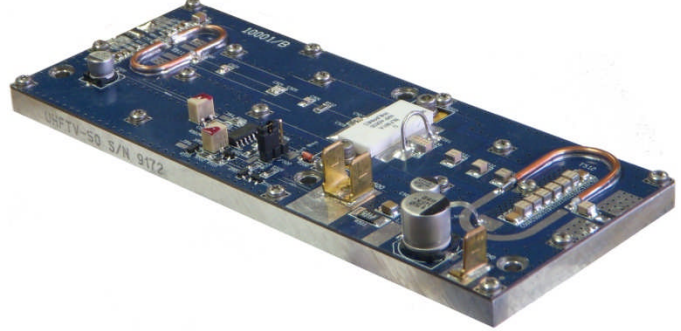
PP470-860-50

Full Band UHF TV

Solid State Broadband

High Power Pallet Amplifier

The PP470-860-50 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_{Base}=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 ₃ , 50W PEP 2 tone, Δf=1.0 MHz | | -40 | | dBc |
| 2 nd Harmonic | | -30 | | dBc |
| 3 rd Harmonic | | -50 | | dBc |
| Baseplate Operating Temp. | 0 | | +60 | °C |
| Size | 2.4"x6.0"x1.0" | | | |

Features

- 150W P1dB
- 50W Pk-Sync @ -54dBc IMD₃
- 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 |

PMT RF Products • 3107 N. Deer Run Road, Suite 20, Carson City, Nevada 89701 USA.

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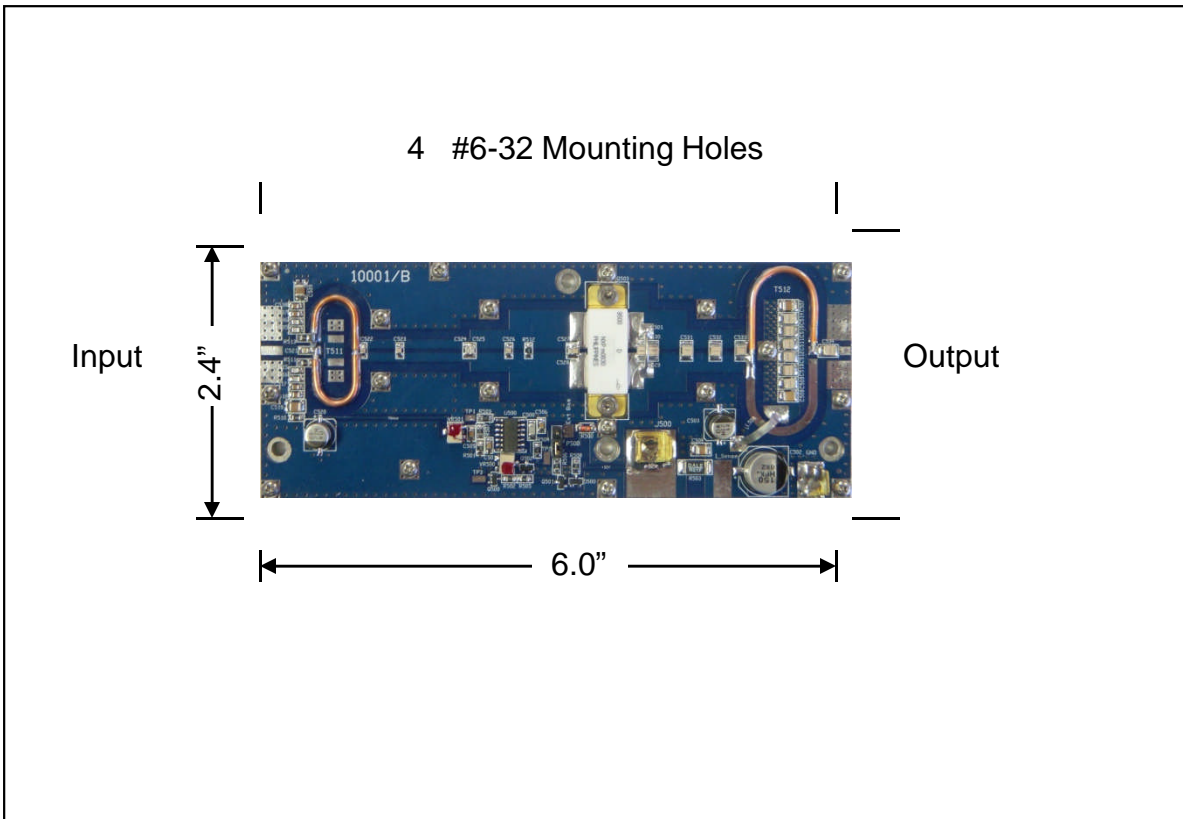
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Reference Circuit



Reference circuit size (not to scale)

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Revision History: 2/1/07 Data Sheet
Page 1 1/22/09
Photo, linear power out, power in, drain current, input R/L 2nd & 3rd harmonic
baseplate oper. temp. max. Input voltage, max. drain current, max. load mismatch,
Max. baseplate temp. updated
Page 2 photo updated
Page 1.2 & 3 new model # 3/6/09

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