



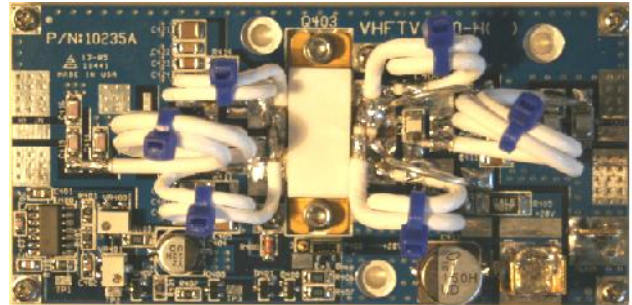
PP88-108-200

VHFTV – FMHD – 200W

Solid State Broadband

High Power Pallet Amplifier

The PP88-108-200 is a 200W pallet amplifier for the 88-108 MHz band. Superior performance is provided offering high gain, efficiency and power in a small pallet footprint using Gold MOSFET transistors available on the market today. Matched for 50 ohms input and output, PP88-108-200 provides 18 dB typical gain for linear PK-sync or CW FM output power applications.



| Specifications | | | | |
|---|----------------|-------|------|-------|
| (Pout=200w Vsupply=+28V Vdc, Idq=.8A, Freq=88-108MHz) | | | | |
| Parameter | Min. | Typ. | Max. | Unit |
| Frequency | 88 | | 108 | MHz |
| Pout P1dB | 175 | 200 | | Watts |
| Gain | 15 | 18 | | dB |
| Power Out | 175 | 200 | | Watts |
| Power In | | 3.2 | | Watts |
| Drain Current | | 12 | | Amps |
| Gain Variation | | ± 1.0 | | dB |
| Input R/L | | | -14 | dB |
| 2 nd Harmonic | | -35 | | dBc |
| 3 rd Harmonic | | -12 | | dBc |
| Baseplate Operating Temp. | 0 | | +70 | °C |
| Size | 2" x 4" x 1.5" | | | |

Features

200 Watts Pk-Synk @32V_{DC}

18 dB Gain

No circuit tuning or RF assembly

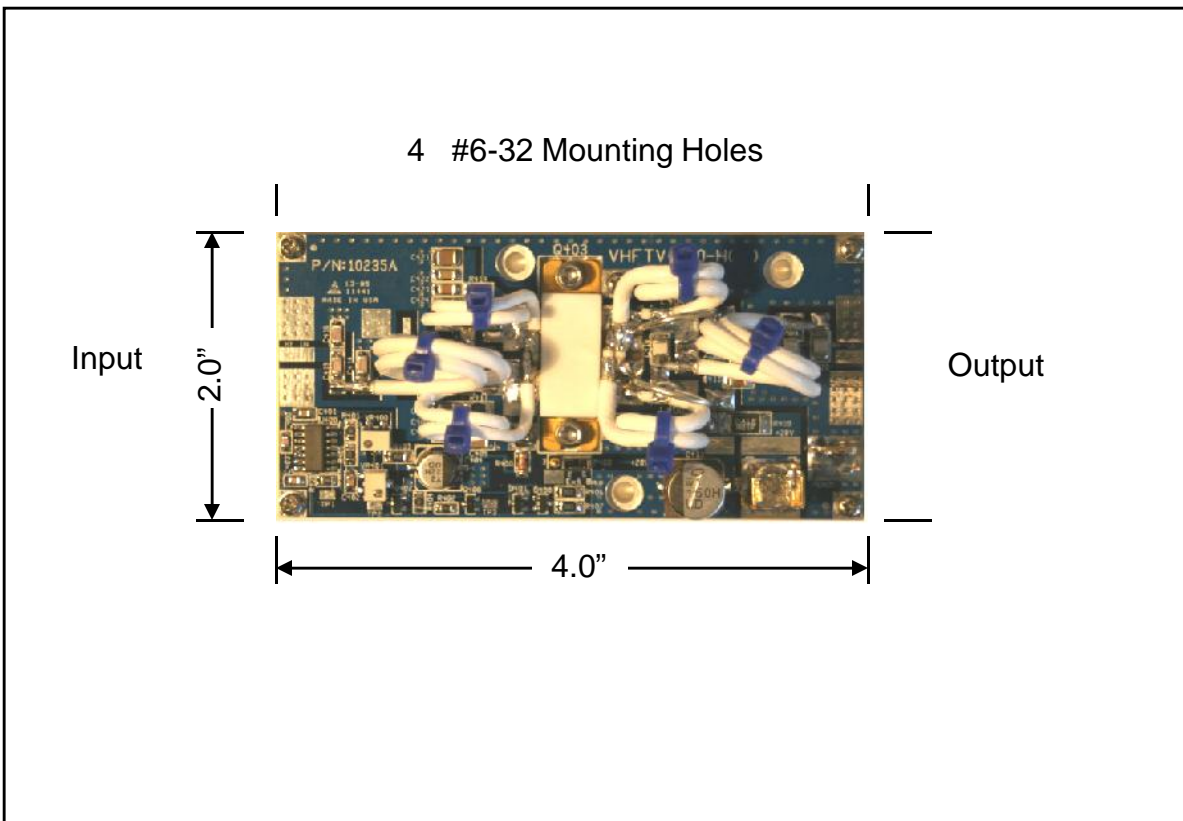
Temperature Compensated Bias

| Maximum Ratings | |
|-------------------|---------------|
| Parameter | Value |
| Input Voltage | +32 VDC |
| Bias Current | 2.5 Amp |
| Drain Current | 15 Amp |
| Load Mismatch | |
| All Phase angles, | 3:1 |
| Baseplate Temp | +70°C |
| Storage Temp | -40° - +105°C |



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Reference Circuit



Reference circuit size (not to scale)