

VL500A

HIGH VHF TV BROADCAST AMPLIFIER 50 TO 88 MHz

FEATURES

- Broadband Tested 50-88 MHz
- Excellent Input Return Loss <-15 dB
- Excellent Linearity with Low Compression
- MOSFET Technology
- Base Plate Mount Standard
- Suitable for High Power Integration



The VL500A was designed for high-power integration with TV transmitters where amplifiers require stable loads and have to be resistive to mismatch fault conditions. This is an excellent choice for reliable and service friendly applications.

SPECIFICATIONS

MAXIMUM RATINGS

| | |
|-----------------------------|----------|
| Supply Voltage..... | 32 VDC |
| RF Input Power | 15W RMS |
| Overdrive for 1 Second..... | 20W RMS |
| Base Plate Temp | 75 deg C |
| ICQ Each Device | 1 Amp |

OPERATING CONDITIONS

| | |
|-----------------------|-----------|
| Supply Voltage..... | 28-32 VDC |
| Base Plate Temp | 65 deg C |
| Power Output | 500W Pk |
| ICQ Total..... | 2 Amps |
| Operating Class | AB (Hard) |

ELECTRICAL SPECIFICATIONS

| | |
|----------------------|------------|
| Frequency Range..... | 50-88 MHz |
| Power Gain..... | 13 dB Min. |
| Gain Ripple | 1.5 dB Typ |
| Efficiency | 30% Min. |

| | |
|------------------------------|-------|
| Operating Load Mismatch..... | 1.5:1 |
| Compressions @ 50W RMS..... | <1dB |

MECHANICAL SPECIFICATIONS

Dimensions: Inches (Millimeters)

| | |
|--------------|-----------|
| Height | 1.25 (32) |
| Width..... | 5 (128) |
| Length | 8.2 (210) |

Hardware

| | |
|---------------------------|---------|
| Mounting..... | #9 HWD |
| Weight | <1 Lb. |
| RF Connector Input | SMA |
| RF Connector Output | SMA |
| DC Connectors..... | PWR Tap |

Cooling Requirements

The mounting plate must be attached to a heat sink to limit base plate to 65 degrees Celsius.



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