



AMP2142DB-250 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Rack mounted system
- Class AB linear LDMOS design
- Dual Band switching front panel or remote
- Instantaneous ultra-wide bandwidth
- Designed for broadband EMI/RFI, Lab, Comm., and EW applications
- Suitable for all single channel modulation standards
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 25°C, 50Ω

| Parameter | Specification | | Notes |
|------------------------------|------------------|----------------|----------------------------|
| | A | B | |
| Band | | | |
| Operating Frequency Range | 10 kHz - 200 MHz | 200 - 1000 MHz | Band switching @ 15 mS Typ |
| Power Output @ Psat | 250 Watt Min | | CW, 300 Watt Typ |
| Power Output @ P1dB | 200 Watt Typ | | CW |
| Power Gain | 54 dB Min | | |
| Power Gain Flatness | 3 dB p-p Max | | |
| Input / Return Loss | -10 dB Max | | Relative to 50 Ohm |
| 2-Tone Intermodulation (IMD) | -30 dBc Typ | -20 dBc Typ | 44 dBm/Tone, Δ = 1 MHz |
| Harmonics | -20 dBc Typ | | At rated Pout |
| Spurious | -60 dBc Max | | Non-harmonic |
| Operating Voltage | 180 - 240 VAC | | |
| Power Consumption | 1800 Watt Max | 2500 Watt Max | At rated Pout |
| Input Power Protection | +5 dBm Max | | <10 Sec without damage |
| Load VSWR Protection | ∞ : 1 | | Auto-shutdown @ 6:1 VSWR |

ENVIRONMENTAL CHARACTERISTICS

| Parameter | Specification | Notes |
|-------------------------------|---------------|----------------|
| Operating Ambient Temperature | 0 to +50°C | |
| Storage Temperature | -40 to +85 °C | |
| Relative Humidity | 5 to 95 % | Non-condensing |

MECHANICAL SPECIFICATIONS

| Parameter | Specification | Notes |
|--|--|------------------------|
| Dimensions W x H x D | 430 x 354 x 820 mm | 8U - excluding handles |
| Weight | 47 Kg. | |
| RF Connectors In/Out | Type-N Female | |
| AC Power / Interface Connector | IEC 60320-C14 / 9-Pin D-Sub | Or equivalent |
| Cooling | Built in Fan Cooling | |
| STANDARD: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface | |

OUTLINE DRAWING

