



AMP4069-ODT SOLID STATE HIGH POWER Ka Band OUTDOOR AMPLIFIER

FEATURES

Exodus Outdoor Ka Band series is suitable for mobile and fixed SATCOM terminals. These products feature high linear power, good efficiency and long-term reliability in a light weight and small form factor. Built in features include remote web-based user interface for control, monitoring and redundancy if required.

The products are Best-in-Class for High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

| Parameter | Specification | Notes |
|---------------------------|-----------------|----------------------------|
| Operating Frequency Range | 26.5 - 40.0 GHz | |
| Power Output | 5 Watt Typ | Saturated CW |
| Power output at P1dB GCP | 3 Watt Typ | |
| Power Gain | 37 dB Min | |
| Power Gain Flatness | 6.0 dB p-p Max | |
| Input Return Loss | -10 dB Max | Relative to 50 Ohm |
| Noise Figure | 12 dB Max | |
| Harmonics | <-20 dBc Typ | At rated Pout |
| Spurious | -60 dBc Max | Non-harmonics |
| Operating Voltage | 100 - 240 VAC | |
| Power Consumption | 90 Watt Max | At rated Pout |
| Input Power Protection | +3 dBm Max | <10 Seconds without damage |
| Load VSWR Protection | ∞ : 1 | <1 Minute at rated Pout |

ENVIRONMENTAL CHARACTERISTICS

| Parameter | Specification | Notes |
|-------------------------------|---------------|---|
| Operating Ambient Temperature | 0 to +50 °C | Sunshade recommended for high temperature Antenna & Roof mount applications |
| Storage Temperature | -40 to +85 °C | |
| Relative Humidity | 0 - 100 % | Condensing |
| Altitude | 3,000-meter | |
| Shock and Vibrations | MIL-STD-810E | |

MECHANICAL SPECIFICATIONS

| Parameter | Specification | Notes |
|--|--|----------------------------|
| Dimensions W x H x D | 214 x 145 x 334 mm | Outdoor Antenna/Roof Mount |
| Weight | 10 kg. | |
| RF Connectors In/Out | 2.9 mm (K-Female) | Optional WR28 |
| AC Power / Interface Connector | MS Connector | |
| Cooling | Built in Hybrid Fan/Convection Cooling | |
| STANDARD: Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, USB, RS422/485 | |

OUTLINE DRAWING

