# HD31919
# SOLID STATE HIGH POWER AMPLIFIER

**FEATURES**

Coaxial low noise amplifier module
Suitable for all single channel modulations standards
High reliability and ruggedness

**ELECTRICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Operating Frequency Range | 240 - 400 MHz | |
| Power Output P1dB | 10 dBm Typ | CW |
| Power Gain | 20 dB Min | |
| Gain Flatness | 2.0 dB p-p Max | |
| Input Return Loss | 12 dB Min | Relative to 50 Ohm |
| Harmonics 2nd / 3rd | -20 dBc Min | At rated Pout |
| 2-Tone 3rd Order Intercept Point (IP3) | N/A | Δ = 1MHz |
| Noise Figure | 0.5 dB Typ | |
| Spurious | -60 dBc Max | Non-harmonics |
| Operating Voltage | 15 VDC Nom | |
| Current Consumption | 60 mA Max | |
| Max Input Power | -10 dBm | Without damage |
| Load VSWR Protection | ∞ : 1 | |

**ENVIRONMENTAL CHARACTERISTICS**

| Parameter | Specification | Notes |
|---|---|---|
| Operating Case Temperature | -20 to +75 °C | |
| Storage Temperature | -40 to +85 °C | |
| Relative Humidity | 5 to 95 % | Non-condensation |

**MECHANICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Dimensions | 33 x 22 x 10 mm | |
| Weight | TBD | |
| RF Connectors In/Out | SMA female | |
| DC Power / Interface Connector | Feed-Thru | |
| Ground | Solder Lug | |

**FEED THRU PIN ASSIGNMENT**

| Pin | Function | Description |
|---|---|---|
| 1 | SHUTDOWN | TTL |
| 2 | VDD | 15VDC |
| 3 | GND | Ground |

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