



VTA 5543 POWER AMPLIFIER

Intended for use with the VTX 5000 series transmitters, the VTA 5000 series power amplifiers are built around an efficient input RF limiter followed by a high efficiency class C amplifier chain, the spurious purity of which is given by an output RF filter.

MAIN FEATURES :

- Video or telemetry applications
- Large RF input range: 20 dB dynamic
- Up to 8% relative bandwidth
- Very good spectral purity
- Infinite load VSWR
- Reverse polarity protection

Reference	Power	Type	Voltage supply	Current
VTA 5543	20 W	S-Band	24-32 V	5.5 A

MECHANICAL SPECIFICATIONS

- Weight : 450 g
- Dimensions : 100 x 100 x 21 mm
- Connectors
 - RF input : SMA F (OSM- 2052 – 3123 – 00 MACOM)
 - RF output : TNC F 3752 – 1201 – 02 MACOM
 - Power supply : DEUTSCH DCS 10Y – 6 - 4 PN



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ELECTRICAL SPECIFICATIONS

RF Characteristics

- Type : Class C bipolar
- -1 dB Frequency range : 2200 – 2400 MHz
- -3 dB Frequency range : 2175 – 2425 MHz
- Power input range : 0.05 to 4 W
- Output power : > 15 W (all conditions); > 20 W (typical)
- Output impedance : 50 Ohms
- Admissible load VSWR : infinite any phase (isolator protected)
- Spurious : < $-(55 + 10 \log P_o(W))$
- Input impedance : 50 Ohms

Power Requirements

- Voltage : 24 – 32 VDC
- Current : 5.5 A (typical)
- Protection : reverse polarity (+/- 40 VDC over voltage)
- Same electrical and mechanical ground

ENVIRONMENTAL

- Operating temperature : - 40°C, + 85°C (base plate)
- Storage temperature : - 55°C, + 100°C
- Vibration sine : 20g, 20 – 2000 Hz, 3 axis
- Vibration random : 0.45 g² Hz⁻¹, 20- 2000 Hz, 3 axis
- Static acceleration : 100g, 3 axis
- Shock : 100g, 11 ms, 3 axis
- Low pressure : up to 25000 m
- EMI : MIL STD 461, 462, 463 A