



Distributed by:
AA SYSTEL France
9, rue RAVEL, 91620 NOZAY / France
TEL: + 33 1 6963 8630
FAX: + 33 1 6963 8474
E-mail: wang.huiqin@a-a.fr
Beijing mobile: +86 138 010 11504

S band LINEAR POWER AMPLIFIER VTA 5540 L

Intended for linear amplification or COFDM application the VTA 5040 L power amplifiers is built around an high efficiency class A amplifier chain, the spurious purity of which is given by an output RF filter.

(Option : without ventilator)



MAIN FEATURES :

- **Linear power amplification: up to 60 W P1 dB**
- **COFDM video links**
- **Up to 10% relative bandwidth**
- **Very good spectral purity**
- **Infinite load VSWR**
- **Reverse polarity protection**

VTA 5540 L LINEAR POWER AMPLIFIER

1 ELECTRICAL SPECIFICATIONS

1.1 RF Characteristics

- Type : Class A – Linear FET-ASGA
- Frequency range : 2 – 3 GHz (by 10% sub-band)
- Bandwidth : 10% relative
- Input impedance : 50 Ω (VSWR < 1.5)
- Output impedance : 50 Ω (VSWR < 1.5)
- COFDM output power : 10 W (Shoulders : - 30 dB); 60 W P1dB
- Load VSWR : Infinite any phase (isolator protected)
- Spurious : $\leq - [55 + 10\text{LogPo(W)}]$ dB

1.2 Power requirements

- Voltage : 11 – 32 Vdc
- Current : 9.8 A
- Protection : Reverse polarity

2 MECHANICAL SPECIFICATIONS

- Weight : 3.9 Kg
- Size : 210 x 175 x 75 mm
- Connectors :
 - RF Input : TNC Female
 - RF Output : TNC Female
 - Power supply : FDBA 50H-10-6-PNK DEUTSCH

3 ENVIRONMENTAL

- Operating temperature : -20°C, + 85°C (Baseplate)
- Storage temperature : -40°C, +100°C
- Vibration sine : 20g, 20-2000 Hz, 3 axis
- Vibration random : 0.45g²/Hz, 20-2000 Hz, 3 axis
- Static acceleration : 40 g, 3 axis
- Shock : 100g, 11 ms, 3 axis
- Low pressure : Up to 25 000 m
- EMI : MIL STD 461, 462, 463A