

## **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**

CONCEPTION ET RÉALISATION D'ÉMETTEURS ET RÉCEPTEURS EMBARQUÉS

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# 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  $\Omega$  (VSWR < 1.5)
- Output impedance : 50  $\Omega$  (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 : 0.45g<sup>2</sup>/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