



## **S & C Bands POWER AMPLIFIER**

### **VTA 65643**

The VTA 65643 series power amplifier is built around a high efficiency class AB amplifier chain, the spurious purity of which is given by an output RF filter. The input signal RF band (S or C) is automatically detected and the amplification is done in the used band.

#### **MAIN FEATURES:**

- Saturated mode amplification
- FM or SOQPSK links
- Very good spectral purity
- Infinite load VSWR
- Insulated power supply
- Reverse polarity protection

CONCEPTION ET RÉALISATION D'ÉMETTEURS ET RÉCEPTEURS EMBARQUÉS

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# VTA 65643 POWER AMPLIFIER

## 1 ELECTRICAL SPECIFICATIONS

### 1.1 RF Characteristics

- Type : **Class AB (saturated mode)**
- Frequency range : 2200 – 2400 MHz and 5070 – 5270 MHz
- Input impedance : 50  $\Omega$  (V.S.W.R < 1:1.5)
- Output impedance : 50  $\Omega$  (V.S.W.R < 1:1.5)
- Input power range : 0.05 to 4W
- Output power : 22 W typical (15 W all conditions)
- Load VSWR : Infinite any phase (isolator protected)
- Spurious :  $\leq - [55 + 10 \text{ Log Po(W)}]$  dB

### 1.2 Power requirements

- Voltage : 18 – 36 VDC
- Insulated power supply : Yes
- Protection : Reverse polarity

## 2 MECHANICAL SPECIFICATIONS

- Weight : 1.85 Kg (typ.)
- Size : 180 x 90 x 45 mm
- Connectors:
  - RF Input : SMA Male (female on request) RADIALL
  - RF Output : SMA Female RADIALL
  - Power supply : DCS 10Y-87-PN DEUTSCH

## 3 ENVIRONMENTAL

- Operating temperature : -40°C, + 85°C (Baseplate)
- Storage temperature : -55°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 : 100g, 3 axis
- Shock : 100g, 11 ms, 3 axis
- Low pressure : Up to 25 000 m
- EMI : MIL STD 461, 462, 463A

