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ST1-07



VTX 6536 NT

COMPACT TELEMETRY TRANSMITTER

The VTX 6536 NT telemetry transmitter is built around a state of the art phase locked loop FM exciter followed by a high efficiency power amplifier. The transmitter offers a very wideband frequency response from 1 Hz to 40 MHz (- 3 dB) which allows High Bit Rate (up to 32 Mbps) or colour HD video-data transmission.

The used technology allows the unit to operate under the environments as found in aircraft applications.

MAIN FEATURES :

- Synthesized output frequency
- Very wide modulation response
- Very high carrier deviation

MECHANICAL SPECIFICATIONS

- Weight : 220 g
- Dimensions : 76.2 x 50.8 x 25 mm
- Connectors
 - Modulation input : SMA female
 - RF output : SMA female
 - Supply : DCS 10Y-6-4-PN DEUTSCH
 - Frequency control : TYCO 21 pins

ELECTRICAL SPECIFICATIONS

RF Characteristics

- Type : Direct frequency PLL synthesized FM exciter
- Frequency range : 2100 – 2700 MHz (200 MHz sub-band)
- Frequency stability : $\pm 0,0025\%$ (-20°, + 80°C)
- Frequency control : Prewired program plug (250 KHz step)
- Output power : 5 W (4.5 W min @ + 70°C case temperature)
- Admissible load VSWR : Infinite any phase (isolator protected)
- Carrier peak deviation : Up to 5 MHz
- Spurious : - 25 dBm corresponding to
-[55 + 10logPo(W)]
- Incidental FM deviation : 10 KHz RMS (in the environment range)

Modulation Characteristics

- Frequency response (- 3 dB) : 1 Hz – 40 MHz
- Deviation sensitivity : 4 MHz / 1 Vpp max
- Input impedance : 50 Ω (75 Ω or 10 K Ω on request)

Power requirements

- Voltage : 24 – 32 VDC

- Current : 1.3 A
- Protection : Reverse polarity

ENVIRONMENTAL

- Operating temperature : - 40°C to + 85°C (base plate).
- Storage temperature : - 55°C to + 100°C.
- Vibration sine : 20g, 20-2000 Hz, 3 axis.
- Vibration random : 0.45 g² Hz⁻¹, 20-2000 Hz, 3 axis.
- Static acceleration : 40 g, 3 axis.
- Shock : 100 g, 11ms, 3 axis.
- Low pressure : up to 25 000m.
- EMI : MIL STD 461, 462, 463A.
(CE03, CE04, CE05, RE02).
(CS01, CS02, RS01, RS02, class 1C).

