S BAND AIRBORNE TELEMETRY TRANSMITTER

ETD5W

DIMENSIONS

Dimensions without connector:
(L x W x H): 3.6 x 2.6 x 1.35 inches maximum.
Weight: 16 ounces maximum.

The unit needs thermal resistance below 0.75°C/W for proper operating temperature.
Do not operate the transmitter without proper heatsink. To do so may lead permanent damage to the unit.

RF output connector : SMA female.
Modulation, Power & Programming connector: MDM 9.

TELEMETRY TRANSMITTER

- Carrier Frequency: 2200 to 2400 MHz.
- Frequency Selection: by RS232.
- Output power: 5 W (37 dBm).
- VWSR < 1.5:1.
- Nominal Load 50 ohms. Fully operational up to 2:1 VWSR. No damage with VSWR = ∞, all Phases.
- Synthesized.
- Programming increments: 500 kHz step.
- Carrier Stability°: within ±0.003 %.
- Lockup Time: 1.5 seconds Maximum.
- Modulation type: True FM.
- Modulation Sense: Positive.
- Input Impedance: 10 kOhms or 50 Ohms (factory setting).
- Deviation Sensitivity: ± 1.225 MHz/± 1.414 V.
- Maximum Deviation: ± 2.45 MHz.
- Frequency Response:30 Hz to 10 MHz (+/- 1.5 dB).
- Harmonic Distortion: 2.0% maximum for ± 1 MHz deviation.
- Harmonics & Spurious: In accordance with latest IRIG 106 specifications.

POWER REQUIREMENT

- + 28 V DC ± 4 V DC.
- 1.6 A maximum at 5 W for 28 V DC.
- Reverse polarity protection.
- Thermal protection.
- Overvoltage Protection: + 40 V DC Maximum.
- Grounding: Power and Modulation return common to chassis.

ENVIRONMENTAL CONDITIONS

- Operating temperature range :- 40 to +71° C
- Storage: - 54 to +85° C.
- Vibration: 20 Hz to 2 kHz, 20 g RMS Random 3 axes
- Shock: ½ sinus 11 ms, 100 g peak 3 axes.
- Acceleration: 40 g 3 axes.
- Incidental FM: 10 kHz maximum.
- Humidity:up to 90% RH.
- Altitude: 100000 ft maximum.
- EMI: Latest IRIG 106 specifications. MIL-STD-461.

**Specifications subject to change without notice.*

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