



Telemetry Transmitter Model HFTT205TS-1

Supplying high performance flight instrumentation, RF/microwave assemblies, power amplifiers, IFF and data acquisition Systems for severe environments.



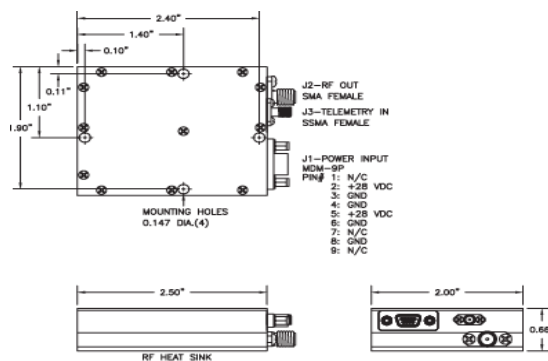
Key features

- 5 Watt minimum power output
- Lightweight, 3.6 ounces maximum (102 grams)
- All solid-state design
- Reverse polarity protection

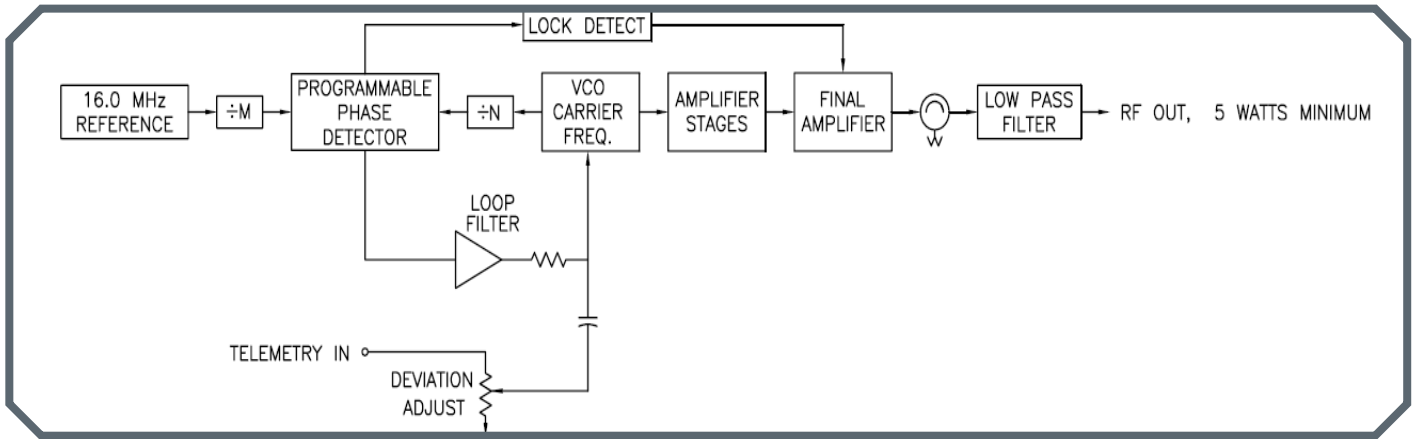
Overview

The HFTT205TS-1 Telemetry Transmitter is a L-band transmitter used primarily to relay telemetry data to a receiving ground station. The units are compact and desirable for those applications where DC power conservation, size and weight are at a premium. Applications include missiles, aircraft, unmanned airborne vehicles (UAV), sounding rockets, drone targets and space launch vehicles.

The design of the HFTT205TS-1 series utilizes the latest in modern devices and circuitry. They are all solid-state to provide a reliable product with extremely long operating life.



ULTRA



PHYSICAL

- Size: 2.50 x 2.00 x .66 inches (6.4 x 5.1 x 1.7 cms)
- Weight: 3.6 ounces (102 gms) maximum

POWER

- Input Voltage: +24 ±4 VDC; reverse polarity protected
- Input Current: 13 Amps maximum
- On/Off Control: Ground=On; Open=Off

TM MODULATION INPUT

- Type: True FM, Positive Sense, AC Coupled
- Frequency Response: 10 Hz to 7.0 MHz ±1.5 dB
- Peak Deviation: ±1.0 MHz Maximum
- Deviation Non-Linearity: 2.0% Maximum BSL for ±1 MHz Deviation
- Deviation Sensitivity: Factory set at 1.0 MHz ±10% per 1V Pk
- Harmonic Distortion: 2.0% maximum
- Incidental AM: 5.0% maximum
- Incidental FM: 10 KHz RMS maximum
- Input Impedance: 75 Ohms Nominal Shunted by 30 pF max

RF OUTPUT

- Carrier Frequency: 2200.0 to 2299.5 MHz (Single Frequency)
- Carrier Stability: Within ±0.002% over -32°C to +71°C
- Power Output: 5 Watts minimum into VSWR up to 2.0:1
- VSWR: 1.5:1 maximum
- Impedance: 50 Ohms nominal
- Loading: Normal operation into any load VSWR and phase angle
- Open/Short Protection: Internal Isolator
- Harmonic and Spurious Level: In accordance with IRIG 106-04

ENVIRONMENTAL

- Vibration: 14 g's random, standard haystack, 10 Hz to 2 kHz, 3 axes
- Temperature, Operating: -32°C to +71°C
- Temperature, Storage: -46°C to +71°C
- Shock: Half sine, 100 g's peak, 11 msec, 3 axes
- Acceleration: 100 g's, 3 axes
- Altitude: Unlimited
- Humidity: To 95% at any temperature forming frost or condensation



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