

**DESCRIPTION**

## 1. Transmitter Technical Characteristics - Pursuant 2.1033

- A. RF Power Output: Variable range from 0.1 to 0.6 Watts (by control of satellite network via closed loop power control). The transmitter duty cycle allows for bursted transmission every 8.28 ms out of 90 ms, or 9.2%, at a rate of 50 kbps, or 25 k symbols/sec.
- B. Frequency Range: 1616 MHz to 1626 MHz
- C. Frequency Stability: +/- 0.00015 % (1.5 ppm)
- D. Emissions: 41K7Q7W
- E. D.C. Voltage into the Final RF Amplifier: 7.5 Volts DC, nominal  
D.C. Current into the Final RF Amplifier: 0.404 Amps (time averaged current with a 9.2% duty cycle).

## 2. Transmitter Application

A. Power Supply Available

The transmitter is normally operated by means of 120/230 VAC, 50/60 Hz power.

B. Antenna Available

The transceiver is provided with a standard RF connection designed to interface with a 50 Ohm characteristic impedance. The radio transmitter is designed to be used with an external (permanent), Right-Hand Circularly Polarized (RCHP) antenna which incorporates a Quarifilar Helix main element. The antenna provides near hemispheric coverage and omni-directional gain pattern.

C. Maximum Transmit Channel Capacity

240 Channels