

**DESCRIPTION**

## 1. Transmitter Technical Characteristics--Pursuant 2.1033(c)

## A. R.F. Power Output:

In analog mode, the power output is continuous and has a variable range from .005 to 0.5 Watts (controlled by the Cell-site).

In digital mode, power output ranges from 0.00001 mW to 0.250 Watts (controlled by the Cell site via Closed Loop Power Control). The power output varies depending on the mobile's data rate. Transmit duty cycle is 100% in 14400 bps, 50% in 7200 bps, 25% in 3600 bps, and 12.5% in 1800 bps.

## B. Frequency Range 824.04 to 848.97 MHz for conventional Analog Mode and Digital CDMA Mode

## C. Frequency Stability

AMPS operational stability:  $\pm .00025\%$  (2.5 PPM)

CDMA operational stability:  $\pm .00005\%$  (0.5 PPM)

## D. Emissions 40K0F8W, 40K0F1D, 1M25F9W

## E. D.C. Voltage into the Final two stage R.F. Amplifier: +4.8 Volts DC

D.C. Current into the Final two stage R.F. Amplifier: 550 mA (Analog)

D.C. Current into the Final two stage R.F. Amplifier: 480 mA (Digital)  
(Average Current in Digital CDMA Mode in 100% transmit duty cycle)

## 2. Transmitter Application

## A. Power Supply Available

The transmitter is normally operated by means of a 7.2 volt (nominal) battery with battery cutoff voltage to no lower than 6.5 V. Performance is also guaranteed up to 8.3 V. (Refer to exhibit 9K)

## B. Antenna Available

The transceiver is provided with an antenna operable in two positions. In the retracted position, it functions as a helical. In the extended position it functions as a quarter wave whip.

## C. Maximum Transmit Channel Capability

AMPS Mode - 832 channels

CDMA Mode - Per 6.1.1.1 of TIA/EIA IS-95-A