

DESCRIPTION

- 2.983 (c) This cellular transceiver is being prepared for quantity production.
- (d) This transmitter is only for use on AMPS/DAMPS cellular telephone system, operating in the 800MHz Domestic Public Cellular Radio telephone Communication service, Subpart K of Part 22. The frequencies are generated using a phase locked loop frequency synthesizer, The transmit audio contains a 2:1 ratio compander, 6db/Octave per-emphasis, ± 12 kHz deviation limiting and a post limiter filter per 22.907 (a).
- (1) Type of Emissions: 800Mhz: AMPS 40K0FID, 40K0F8W
800MHz: DAMPS 30K0DXW
- (2) Frequency Range: 824-849 Mhz,
- (3) Range of Operating Power: This transmitter is designed for cellular mobile telephone operation. The transmitter is adjusted to achieve 0.4 watts measured at the antenna connector. The transmitter output is controlled by a binary data message emitted by the base station. The power level can be controlled in eleven levels, as defined in EIA/TIA IS-137-A for a class 4 transmitter. Each power level will be maintained to ± 2 , -4 dB (with additional tolerances at power levels 8, 9, and 10 per IS137-A) over a temperature range of -20 to +50° C and a supply voltage, measured at the radio, between 4.3 and 5.9 VDC.
- (4) Maximum Power Rating: The maximum power rating under environmental and supply voltage variations is equal to 0.4 watts plus the power level tolerance of +2, -4 dB. Therefore the maximum output power is 0.69 watts per IS 19B.
- (5) DC Voltage and Current: The DC voltage and total input current of the entire final power amplifier module is 4.8 VDC and 380 mA in the highest level (0.4 watts) to 100 mA in the lowest power level (0.0063 watts).