

General Characteristics

- 1. Radio Compliance : FCC Part 2 , 15 , 80, DOC V. DSC (SC101-STD)
- 2. Number of Channels : All USA, International, Canadian and 10 Weather channels are included.
- 3. Input Voltage : 13.8 VDC \pm 15%
- 4. Input Current : TX Less than 5.0A Max at 25 Watts
Less than 1.5A Max at 1 Watt
: RX (squellch) less than 250mA Max
- 5. Modulation Type : 16K0F3E , 16K0G3E for DSC
- 6. Operating Temperature : -20 °C ~+55 °C

Transmitter Characteristics

- 1. Frequency Range : 156.025 to 157.425 MHz
- 2. Channel Spacing : 25KHz
- 3. RF Output Power : 25W / 1W, selectable into 50 ohms at 13.8VDC
- 4. Frequency Stability : \pm 0.001% (-20 °C ~+55 °C)
- 5. Frequency Deviation : \pm 5KHz Max
- 6. Modulation AF Response : Within the limit of \pm 1/-3 dB at 6dB/oct. frequency curve (300 ~3000Hz) reference (1000Hz)
- 7. Time-out-timer : 5 minutes \pm 10%
- 8. Hum & Noise Level : Less than -40dB below audio
Less than 10% at 1KHz for \pm 3KHz
- 9. Spurious & Harmonic Emission : Attenuated at least 43+10 Log Power (below rated radiated carrier power)

Receiver Characteristics

- 1. Frequency Range : 15.025 to 163.275MHz in 25KHz increment
- 2. AF Output : 3 Watts (Less than 10% at 1KHz)
- 3. AF Response : 6 dB/oct de-emphasis \pm 1/-3dB from 300 ~3000Hz
- 4 Sensitivity : 0.3uV for 12 SINAD
- 5 Squellch Sens. Threshold : 0.15uV
- 6. Tight Squellch Sensitivity : 0.95uV
- 7. Adjacent Channel Selectivity : Better than 70dB
- 8 Spurious Image Rejection : Better than 70dB
- 9. Intermodulation : Better than 65dB
- 10 FM Hum and Noise : Less than -40dB

DSC

- 1. Mark : 1300Hz
- 2. Space : 2100Hz
- 3 Frequency Stability : \pm 10Hz (-20 °C ~+50 °C)
- 4. Baulate : 1200 bit/sec
- 5. Modulation Index : \pm 10%
- 6. DSC Format : RTCMSC101