

General Characteristics

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| 1. Radio Compliance | : FCC Part 2 , 15 , 80, DCC 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 $\sim$ +55 °C |

Transmitter Characteristics

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|---------------------------------|--|
| 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 $\sim$ +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 $\sim$ 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

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|---------------------------------|--|
| 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 $\sim$ 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

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