

### SR 20C - Specifications : Technical Specifications

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#### AVAILABLE OPERATING FREQUENCIES

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**150 MHz Band:**

Range from 135 to 182 MHz

**240 MHz Band:**

Range from 215 to 265 MHz

**330 MHz Band:**

Range from 300 to 350 MHz

**450 MHz Band:**

Range from 430 to 480 MHz

**950 MHz Band:**

Range from 935 to 965 MHz

#### RF SPECIFICATIONS

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**Frequency Programming:****Increments:**

1 Hz

**Accuracy:**

$\pm 0.00025\%$  of center frequency

**Change Time:**

<2 seconds

**Receive Bandwidth:**

125-250 KHz, depending on selected frequency

**Deviation:**

[spec]

**Stability over Operating Temperature range:**

$\pm 0.0001\%$

**Sensitivity:****50 dB Signal-to-Noise:**

4  $\mu$ Vs

**60 dB Signal-to-Noise:**

14  $\mu$ Vs

**Max Signal-to-Noise (typically 75 dB or greater):**

100  $\mu$ Vs

#### AUDIO SPECIFICATIONS

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**Type of technology to produce carrier:**

Phase-locked loop (synthesized)

**Spurious Response:**

-90 dB

**Mono Operation:****Connector Type:**

15-pin D connector or external terminal strip

**Output Impedance:**

Balanced 600 Ohms

**Output Level:**

-10 dBm to +11 dBm

**Frequency Response (20 Hz to 15 kHz):**

# Broadcast Electronics

## Technical Specifications

±0.2 dB

**S/N Ratio @ 100 µV Input:**

**200 kHz BW @ 50 kHz Dev:**

>75 dB

**125 kHz BW @ 15 kHz Dev:**

>64 dB

**125 kHz BW @ 9 kHz Dev:**

>60 dB

**THD + Noise:**

**200 kHz BW @ 50 kHz Dev:**

0.25% or less, 20 Hz to 15 kHz

**125 kHz BW @ 15 kHz Dev:**

0.3% or less, 20 Hz to 15 kHz

**125 kHz BW @ 9 kHz Dev:**

0.3% or less, 20 Hz to 15 kHz

**Composite:**

**Connector Type:**

BNC connector, unbalanced Female

**Impedance:**

75 Ohm

**Output Level:**

2.2 Vpp to 8 Vpp

**Frequency Response:**

**Composite:**

±0.2 dB, 30 Hz to 53 kHz

**Wideband:**

±0.3 dB, 30 Hz to 100 kHz

**S/N Ratio:**

>75 dB, dependent upon operating frequency, demodulated, deemphasized

**THD + Noise:**

0.2% or less, 20 Hz to 15 kHz, demodulated, deemphasized, low-pass filtered, left or right channel

**Separation:**

**250 kHz BW:**

-55 dB @ 400 Hz; -52 dB, 50 Hz to 15 kHz

**200 kHz BW:**

-50 dB, 50 Hz to 15 kHz

**IMD:**

75 dB for 20 dB signal-to-noise

**Image Rejection:**

100 dB

## MECHANICAL/PHYSICAL

**RF Input Connector:**

Type N Female

**Accessory Connector:**

15-pin D connector or terminal strip

**Output Connector:**

15-pin D connector or terminal strip

**Dimensions (Unpacked):**

3.5"H x 19"W x 15.5"D (8.9cm H x 48.3cm W x 39.4cm D)

**Weight (Unpacked):**

7.8 lbs (3.5 kg)



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## Technical Specifications

### ENVIRONMENTAL

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**Operating Temperature:**

-20° C to +50° C

**Altitude:**

10,000 ft (3048m) max

**Humidity:**

95% maximum, non-condensing

### ELECTRICAL

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**Voltage:**

**AC Operation:**

85-264 VAC; 47-63 Hz

**DC Operation:**

+10 to +14 VDC (Via D Connector)

**Current Draw:**

1.5 A @ 12 VDC

**Power Consumption:**

55 Watt Max (25 W Typ)

**Heat Dissipation:**

55 W Max

**Fuse:**

1.25 amp slo-blo

**ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**

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