

## SR 20C 150 : Technical Specifications

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The SR 20C 150 is fully synthesized and can be operated in any frequency within the specified band of operation. The SR 20C is frequency agile and can be programmed easily to any operating frequency in the band of interest.



### RF SPECIFICATIONS

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**Frequency Band:**

135-185 MHz

**Frequency Programming:**

**Increments:**

1 Hz

**Accuracy:**

± 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:**

± 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):**

±0.2 dB

**S/N Ratio @ 100  $\mu$ V 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:**  
0.25 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

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**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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**ENVIRONMENTAL**

**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

### **Power Consumption:**

150 Watt Max