

SR 20C - Specifications : Technical Specifications

AVAILABLE OPERATING FREQUENCIES

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

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 μ Vs

60 dB Signal-to-Noise:

14 μ Vs

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

100 μ Vs

AUDIO SPECIFICATIONS

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):

Tomorrow's Radio Today

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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 V_{pp} to 8 V_{pp}

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)



ENVIRONMENTAL

Operating Temperature:

-20° C to +50° C

Altitude:

10,000 ft (3048m) max

Humidity:

95% maximum, non-condensing

ELECTRICAL

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
