# SR 40A - 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

**Stability Over Operating Temperature Range**:
±0.0001%
**Frequency Programming:**
**Increments**:
1 Hz
**Accuracy**:
±0.00025% of center frequency
**Change Time**:
<2 seconds
**Number of Channels/Frequencies**:
Unlimited within band, enter from front panel controls
**Mimimum Channel Spacing**:
None
**Receive Bandwidth**:
20-50 KHz, depending on selected frequencies
**Deviation**:
1.5, 5.0, 7.5 or 10.0 kHz depending upon frequency and filter
**Spurious Response**:
-90 dB
**Sensitivity:**
**20 dB Signal-to-Noise**:
0.5 µVs
**30 dB Signal-to-Noise**:
2.0 µVs
**40 dB Signal-to-Noise**:
4.0 µVs
**Max Signal-to-Noise (typically 57 dB or greater)**:
100 µVs

## AUDIO SPECIFICATIONS

**Type of Technology**:
Phase-locked loop (synthesized)
**Spurious Response**:
-90 dB

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**Mono Operation:**

**Connector Type**:
15- Pin D Connector

**Output Impedance**:
Balanced 600 Ohms

**Output Level**:
0 to +12 dBm

**Frequency Response:**

**50 Hz to 3 kHz**:
±1.5 dB, 10 kHz Channel BW, 1.5 kHz Dev, 20 kHz filter

**50 Hz to 7.5 kHz**:
± 1.5 dB, 25 kHz Channel BW, 5.0 kHz Dev, 25 kHz filter

**50 Hz to 10.5 kHz**:
± 1.5 dB, 36 kHz Channel BW, 7.5 kHz Dev, 36 kHz filter

**50 Hz to 10.5 kHz**:
± 1.5 dB, 41 kHz Channel BW, 10.0 kHz Dev, 50 kHz filter

**S/N Ratio @ 100 µV Input:**

**10 kHz BW @ 1.5 kHz Dev**:
44 dB

**25 kHz BW @ 5.0 kHz Dev**:
53 dB

**36 kHz BW @ 7.5 kHz Dev**:
57 dB

**50 kHz BW @ 10.0 kHz Dev**:
57 dB

**THD + Noise:**

**10 kHz BW @ 1.5 kHz Dev**:
2% or less, 50 Hz to 3 kHz

**25 kHz BW @ 5.0 kHz Dev**:
2% or less, 50 Hz to 7.5 kHz

**36 kHz BW @ 7.5 kHz Dev**:
2% or less, 50 Hz to 10.5 kHz

**50 kHz BW @ 10.0 kHz Dev**:
2% or less, 50 Hz to 10.5 kHz

**IMD (For 20 dB Signal-to-Noise)**:
75 dB

**Image Rejection**:
100 dB

**Headphone:**

**Control at Midrange:**

**Frequency Response**:
± 1.5 dB of the Specified Bandwidth

**S/N Ratio**:
-37 dB

**THD + Noise**:
2.5% or less at 400 Hz

## MECHANICAL/PHYSICAL

**RF Input Connector**:
Type N female

**Accessory Connector**:
1/4" Headphone jack and control

**Output Connector:**

**Mono**:

15-Pin D connector

**Dimensions (Unpacked)**:

3.5"H x 12"W x 15"D (8.9cm H x 30.5cm W x 38.1cm D)

**Weight (Unpacked)**:

6.7 lbs (3.0 kg)

## ENVIRONMENTAL

**Operating Temperature**:

-10° 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

**Current Draw**:

1.5 A @ 12 VDC

**Power Consumption**:

55 W Max (25 W typical)

**Heat Dissipation**:

55 Watt Max

**Fuse**:

1.25 amp slo-blo

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