

SR 40A 450 : Technical Specifications

The SR 40A is a fully synthesized and frequency agile RPU receiver. It can be operated on any frequency within its specified band through the front panel controls and there are no minimum spacing requirements with the operating band.

RF SPECIFICATIONS

Frequency Band:

430-480 MHz

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

Minimum 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 μ Vs

30 dB Signal-to-Noise:

2.0 μ Vs

40 dB Signal-to-Noise:

4.0 μ Vs

Max Signal-to-Noise (typically 57 dB or greater):

100 μ Vs

AUDIO SPECIFICATIONS

Type of Technology:

Phase-locked loop (synthesized)

Spurious Response:

-90 dB

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 μ V 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

Power Consumption:

150 W Max