

SR 30 450 : Technical Specifications

The SR 30 is the companion RPU receiver to the SRPT 30 RPU transmitter. This two-channel receiver can be operated anywhere within its specified operating band. No minimum spacing requirement within the band of operation.

RF SPECIFICATIONS

Frequency Range:

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):

Two, Factory Programable, within band

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 (Via D Connector)

Current Draw:

1.5 A

Power Consumption:
150 Watt Max