

SR 30 - 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:

$\pm 0.0001\%$

Frequency Programming:**Increments:**

1 Hz

Accuracy:

$\pm 0.00025\%$ of center frequency

Change Time:

<2 seconds

Number of Channels (Frequencies):

Two, Factory Programable, within band

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 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

Broadcast Electronics

Technical Specifications

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



Broadcast Electronics

Technical Specifications

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 @ 12 VDC

Power Consumption:

55 Watt Max (25 W Typical)

Heat Dissipation:

55 W Max

Fuse:

1.25 amp slo-blo

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

