

### SR 30 - Specifications : Technical Specifications

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#### AVAILABLE OPERATING FREQUENCIES

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**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

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**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  $\mu$ Vs

**30 dB Signal-to-Noise:**

2.0  $\mu$ Vs

**40 dB Signal-to-Noise:**

4.0  $\mu$ Vs

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

100  $\mu$ Vs

#### AUDIO SPECIFICATIONS

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**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

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**Operating Temperature:**

-10° C to +50° C

**Altitude:**

10,000 ft (3048m) max

**Humidity:**

95% maximum, non-condensing

### ELECTRICAL

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**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

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