

SR 20M 450 : Technical Specifications

The SR 20M 450 is fully synthesized and can be operated in any frequency within the specified band of operation. The SR 20M is a single frequency receiver, but is fully synthesized for great performance.

RF SPECIFICATIONS

Frequency Band:

430-480 MHz

Frequency Programming:**Increments:**

1 Hz

Accuracy:

± 0.00025% of center frequency

Change Time:

<2 seconds

Receive Bandwidth:

125-250 KHz, depending on selected frequency

Deviation:

Adjustable, ±20 kHz max

Stability over Operating Temperature range:

± 0.0001%

Sensitivity:**50 dB Signal-to-Noise:**

4 µVs

60 dB Signal-to-Noise:

14 µVs

Max Signal-to-Noise (typically 75 dB or greater):

100 µVs

AUDIO SPECIFICATIONS

Type of technology to produce carrier:

Phase-locked loop (synthesized)

Spurious Response:

-90 dB

Mono Operation:**Connector Type:**

15-pin D connector or external terminal strip

Output Impedance:

Balanced 600 Ohms

Output Level:

-10 dBm to +11 dBm

Frequency Response (20 Hz to 15 kHz):

±0.2 dB

S/N Ratio @ 100 µV Input:**200 kHz BW @ 50 kHz Dev:**

>75 dB

125 kHz BW @ 15 kHz Dev:

>64 dB

125 kHz BW @ 9 kHz Dev:

>60 dB

THD + Noise:**200 kHz BW @ 50 kHz Dev:**

0.25% or less, 20 Hz to 15 kHz

125 kHz BW @ 15 kHz Dev:

0.3% or less, 20 Hz to 15 kHz

125 kHz BW @ 9 kHz Dev:

0.3% or less, 20 Hz to 15 kHz

MECHANICAL/PHYSICAL

RF Input Connector:

Type N Female

Accessory Connector:

15-pin D connector or terminal strip

Output Connector:

15-pin D connector or terminal strip

Dimensions (Unpacked):

3.5"H x 19"W x 15.5"D (8.9cm H x 48.3cm W x 39.4cm D)

Weight (Unpacked):

7.8 lbs (3.5 kg)

ENVIRONMENTAL

Operating Temperature:

-20° 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