SR 20M - Specifications : Technical Specifications

AVAILABLE OPERATING FREQUENCIES

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 MHz Band</td>
<td>Range from 135 to 182 MHz</td>
</tr>
<tr>
<td>240 MHz Band</td>
<td>Range from 215 to 265 MHz</td>
</tr>
<tr>
<td>330 MHz Band</td>
<td>Range from 300 to 350 MHz</td>
</tr>
<tr>
<td>450 MHz Band</td>
<td>Range from 430 to 480 MHz</td>
</tr>
<tr>
<td>950 MHz Band</td>
<td>Range from 935 to 965 MHz</td>
</tr>
</tbody>
</table>

RF SPECIFICATIONS

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 x39.4cm 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 @ 12 VDC
Power Consumption:
  55 W Max (25 W typical)
Heat Dissipation:
  55 W Max
Fuse: