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

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: [spec]

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

Composite:
  
  Connector Type:
    BNC connector, unbalanced Female  
  Impedance:
    75 Ohm  
  Output Level:
    2.2 Vpp to 8 Vpp

Frequency Response:

  Composite:
    ±0.2 dB, 30 Hz to 53 kHz  
  Wideband:
    ±0.3 dB, 30 Hz to 100 kHz

S/N Ratio:

  >75 dB, dependent upon operating frequency, demodulated, deemphasized

THD + Noise:

  0.2% or less, 20 Hz to 15 kHz, demodulated, deemphasized, low-pass filtered, left or right channel

Separation:

  250 kHz BW:
    -55 dB @ 400 Hz; -52 dB, 50 Hz to 15 kHz  
  200 kHz BW:
    -50 dB, 50 Hz to 15 kHz

IMD:

  75 dB for 20 dB signal-to-noise

Image Rejection:

  100 dB

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 Watt Max (25 W Typ)

Heat Dissipation:
   55 W Max

Fuse:
   1.25 amp slo-blo

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE