

## ELECTRICAL

Double superheterodyne; 50 MHz first i-f; 10 MHz second i-f.

Frequency Range
$105-6000 \mathrm{MHz}$ as determined by plug-in rf tuner.

## Input Impedance

## Noise Figure

VSWR

Image Rejection
IF Rejection
Dynamic Range

First LO Characteristics:
Modes

Stability:
V FO
Crystal

Second LO Characteristics:
Modes

Stability:
VFO
Crystal
AFC Characteristics:
Tracking Range

Acquisition Range

Drift Reduction Factor
Search Range

Search Rate

50 ohms, unbalanced.
5.5 to 10.0 dB depending on rf tuner used.

2:7 maximum depending on rf tuner used.
80 dB minimum.
90 dB minimum.
Threshold to -7 dBm (threshold is defined as a 6 dB signal-to-noise ratio).

Switch selectable vfo, crystal, off, (external input).
$\pm 0.001 \%$ per degree Centigrade.
$\pm 0.005 \%$ without oven;
$\pm 0.0005 \%$ with oven.

Switch selectable, vfo, crystal, afc, pm, off (external input).
$\pm 0.001 \%$ per degree Centigrade.
$\pm 0.005 \%$.
$\pm 400 \mathrm{kHz}$ in addition to $\pm 250 \mathrm{kHz}$ fine tune control.

Up to 400 kHz from center frequency in addition to $\pm 250 \mathrm{kHz}$ fine tune control.

Greater than 10,000:1.
50 kHz to greater than 800 kHz ; approximately symmetrical about second l-o frequency as set by front panel fine tune control.

1. $5 \mathrm{MHz} /$ second.

## PM Characteristics:

Control Range

Search Range

Phase Loop Bandwidth
$\pm 250 \mathrm{kHz}$ in addition to second l-o fine tuning range.

50 kHz to greater than 250 kHz ; approximately symmetrical about second $1-0$ frequency; set by loop bandwidth control.
$10,30,100,300,1000 \mathrm{~Hz}$ as determined by positioning of pm demodulator loop bandwidth switch.

Demodulation
FM Demodulation
PM Demodulation
AM Demodulation:
AM Response

AM Distortion

AGC Time Constant

Video Characteristics:
Output Impedance
Rated Output
Maximum Output
Distortion

Source
Coupling
Response

Power Requirements

Refer to applicable fm demodulator manual. Refer to applicable pm demodulator manual.

5 Hz to one-half i-f bandwidth (1. 6 MHz maximum).

Less than $3 \%$ with $90 \%$ modulation at a 1 kHz rate.

Switch selectable; $0.1,1.0,10,100,1000 \mathrm{msec}$ normally supplied. Others available.

75 ohms.
4 volts peak-to-peak.
10 volts peak-to-peak.
Less than $0.5 \%$ at rated output; less than $1 \%$ at maximum output.

Plug-in demodulator or $\mathrm{a}-\mathrm{m}$ detector.
AC or DC; switch selectable.
AC coupled -5 Hz to $2.0 \mathrm{MHz}+1.0 \mathrm{~dB}-3 \mathrm{~dB}$.
DC coupled - DC to $2.0 \mathrm{MHz}+1.0 \mathrm{~dB}-3 \mathrm{~dB}$.
$115 / 230 \mathrm{~V}$ ac $\pm 10 \%, 50-400 \mathrm{~Hz}, 35$ watts (1100-AR) or 50 watts ( $1100-\mathrm{AR}(7)$ ) maximum.

## ENVIRONMENTAL

Temperature Range:

Storage Operating

Atmospheric Pressure:
Storage
Operating
Humidity
MECHANICAL
Height
Width
Depth
Weight
$-62^{\circ}$ to $+65^{\circ}$ Centigrade. $0^{\circ}$ to $+50^{\circ}$ Centigrade.

To 50, 000 feet.
To 15, 000 feet.
To $95 \%$ relative humidity.

5-7/32 inches $1100-\mathrm{AR}$; 7-31/32 inches 1100-AR(7). 19 inches.
19-1/4 inches.
1100-AR approximately 35 pounds. 1100-AR(7) approximately 42 pounds.

