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Sherwood Engineering HF Test Results

Model: Lowe HF-250 Serial # : 452401 Test Date : June 21, 1995

IF BW, Very Wide AM (Marked as 10 KHz) -6/60 , kHz	10.7 / 24.1	Ultimate	70 db (G)
IF BW, Wide AM / SSB (Marked as 7 KHz) -6/60 , kHz	6.7 / 12.6	Ultimate	75 db (E)
IF BW, AM (Marked as 4 KHz) -6/60 , kHz	5.7 / 9.9	Ultimate	80 db (E)
IF BW, SSB or other (Marked as 2.2 KHz) -6/60 , kHz	2.5 / 7.0	Ultimate	80 db (E)

Front End Selectivity (A - F) B (E)

Image Rejection 10 MHz (@ 455 kHz IF) 80 db (E)

First IF Rejection (@ 45 Mhz IF) 70 db (G)

Dynamic Range @ 15 MHz, DR 20	86 db	IP3	0 dBm
Dynamic Range @ 15 MHz, DR 5	80 db (E)	IP3	9 dbm (E)
Dynamic Range @ 15 MHz, DR 3	3 db	IP3	-20 dbm

Blocking at 100 kHz 131 db (E)

Phase Noise (normalized) @ 10 kHz offset 123 dbc (E)

Loops in synthesizer ?

*Noise floor, SSB bandwidth @ 10 MHz -129 dBm (G)

*Sensitivity, SSB bandwidth @ 10 MHz 0.22 uV (E)

*Noise floor at 2 MHz -127 dBm

*Sensitivity at 2 MHz 0.31 uV

*Noise floor at 1 MHz -128 dBm

*Sensitivity at 1 MHz 0.28 uV

*Noise floor at 200 kHz -127 dBm

*Sensitivity at 200 kHz 0.31 uV

AGC Threshold at -4 dB 0.6 uV (E)

Stability at 10 MHz after 10 second warm-up 60 Hz (G)

* = Whip Amplifier Off

Distortion AM, 60 % modulation	Narrow Bandwidth	Wide Bandwidth
100 Hz	1 %	1.0 % (S)
200 Hz	1 %	0.7 % (S)
400 Hz	1 %	0.5 % (S)
1000 Hz	2 %	1.0 % (S)
2000 Hz	5 %	1.5 % (E)

Distortion SSB

100 Hz	3 % (G)
200 Hz	1.5 % (E)
400 Hz	0.3 % (S)
1000 Hz	0.1 % (S)
2000 Hz	0.1 % (S)

Distortion, Synchronous AM (w/ DU-250)	Narrow Bandwidth	Wide Bandwidth
100 Hz	2 %	2 % (E)
200 Hz	1 %	1 % (S)
400 Hz	0.5 %	0.5 % (S)
1000 Hz	0.5 %	0.5 % (S)
2000 Hz	?	0.3 % (S)

Is distortion similar at record jack as headphone output ? Yes

Is uP software battery dependent No

Gain pots other than AF RF or IF No

Attenuators : 20 dB

Preamp : No dB (Whip Preamp WA250 as option)

Audio notches :

Fixed frequency None kHz

Variable, range None kHz