Attachment 4

UHF NOISE FIGURE MEASUREMENT DATA

Manufacturer : SHARP CORPORATION
Trade Name (Brand Name) : SHARP
Noise Figure Measurement :

Model No. : VC-H818U
FCC ID where assigned : N/A
Converter : VTUENG56712G1

List UHF Noise Figure (dB)

		UHF Channel Number										Plan C				
		14	20	26	32	38	44	50	56	62	69	MAX	CH	x	Sn	x+K*Sn
TN IC 6502	1	4.9	4.9	4.9	4.9	4.8	4.9	5.1	5.4	5.6	6.2	6.2	69	5.16	0.45	6.51
	2	4.6	4.6	4.8	4.7	4.4	4.6	4.7	4.8	5.1	5.7	5.7	69	4.80	0.37	5.90
	3	4.8	4.8	4.8	4.8	4.5	4.7	5.0	5.3	5.5	6.1	6.1	69	5.03	0.48	6.46
	4	4.5	4.5	4.6	4.6	4.6	4.8	4.9	5.1	5.4	6.0	6.0	69	4.90	0.48	6.35
	5	4.7	4.6	4.8	4.9	4.7	4.8	5.2	5.1	5.4	5.9	5.9	69	5.01	0.40	6.22
	6	4.8	4.7	4.7	4.8	4.6	4.8	5.2	5.2	5.7	6.3	6.3	69	5.08	0.54	6.72
	7	4.6	4.5	4.7	4.8	4.6	4.7	5.1	5.1	5.5	6.0	6.0	69	4.96	0.48	6.40
	8	4.9	4.9	4.9	4.8	4.6	4.7	5.1	5.1	5.6	6.2	6.2	69	5.08	0.48	6.53
	9	5.4	5.2	5.2	5.2	4.9	4.9	5.3	5.4	5.6	6.1	6.1	69	5.32	0.35	6.37
	10	5.3	5.1	5.0	5.1	4.8	4.7	5.1	5.2	5.4	6.0	6.0	69	5.17	0.36	6.25
TN IC 6402	1	4.7	4.8	4.8	4.8	4.7	4.8	4.9	5.0	5.1	5.7	5.7	69	4.93	0.30	5.83
	2	5.0	5.0	5.1	5.2	5.1	5.2	5.3	5.4	5.5	5.9	5.9	69	5.27	0.28	6.10
	3	4.7	4.7	4.7	4.8	4.6	4.8	4.9	5.0	5.3	5.9	5.9	69	4.94	0.39	6.12
	4	4.8	4.8	4.9	5.1	4.9	5.0	5.1	5.1	5.2	5.6	5.6	69	5.05	0.24	5.76
	5	5.3	5.3	5.6	6.0	6.2	6.5	6.7	6.5	6.5	6.9	6.9	69	6.15	0.58	7.89
	6	5.0	4.9	5.2	5.4	5.2	5.3	5.6	5.4	5.6	6.1	6.1	69	5.37	0.34	6.40
	7	5.3	5.3	5.5	5.6	5.5	5.5	5.8	5.8	5.9	6.2	6.2	69	5.64	0.28	6.49
	8	4.9	4.8	4.9	5.1	4.9	4.9	5.2	5.4	5.8	6.0	6.0	69	5.19	0.42	6.45
	9	5.2	5.1	5.3	5.3	5.2	5.2	5.5	5.5	5.8	5.9	5.9	69	5.40	0.27	6.22
	10	5.1	4.9	5.0	5.1	4.8	4.9	5.4	5.3	5.9	5.9	5.9	69	5.23	0.40	6.43

* I subtracted 4 dB from the measured NF, because a power splitter is equipped in set.

Sample size 10 (using TN IC 6502) K = 3.0113
10 (using TN IC 6402)

x : Mean of ten distributed noise figures including the max. value.
Sn : Standard deviation for ten distributed noise figure including max. value.
Note : The above " Max ", indicating the worst noise figure in the total range of 69 UHF channel.

Noise Figure Contribution of the N.F Amplifier
(Measured Values)

Second Stage Noise Figure : dB
Tuner Gain : N.A dB
Noise Figure Contribution : less than 0.30 dB