

## MEASURED FREQUENCY RESPONSE OF THE PREAMPLIFIER

Frequency	Measured	Normalized
1 Khz input	-42.5 db	-35.3
10 Khz	-39.0	-31.8
20 Khz	-33.5	-26.3
30 Khz	-21	-13.8
40 Khz	-23.4	-16.2
50 Khz	-17.0	-9.8
60 Khz	-7.2	-0.0
70 Khz	-16.0	-8.8
80 Khz	-18.5	-11.3
90 Khz	-35	-27.8
100 Khz	-42.5	-35.3
120 Khz to 2 Mhz	-44	-36.8

minus one db compression, input was  $-35.5$  db or 13 mV. Output was  $+3.7$  db or 120 mV.

gain at 60 Khz is 42.5 db

minus 3 db bandwidth is 57.11 and 63.09 Khz (5.98 Khz)

appears the noise figure is 5.7 db