Data Sheet

jensen transformers
By REICHENBACH ENGINEERING

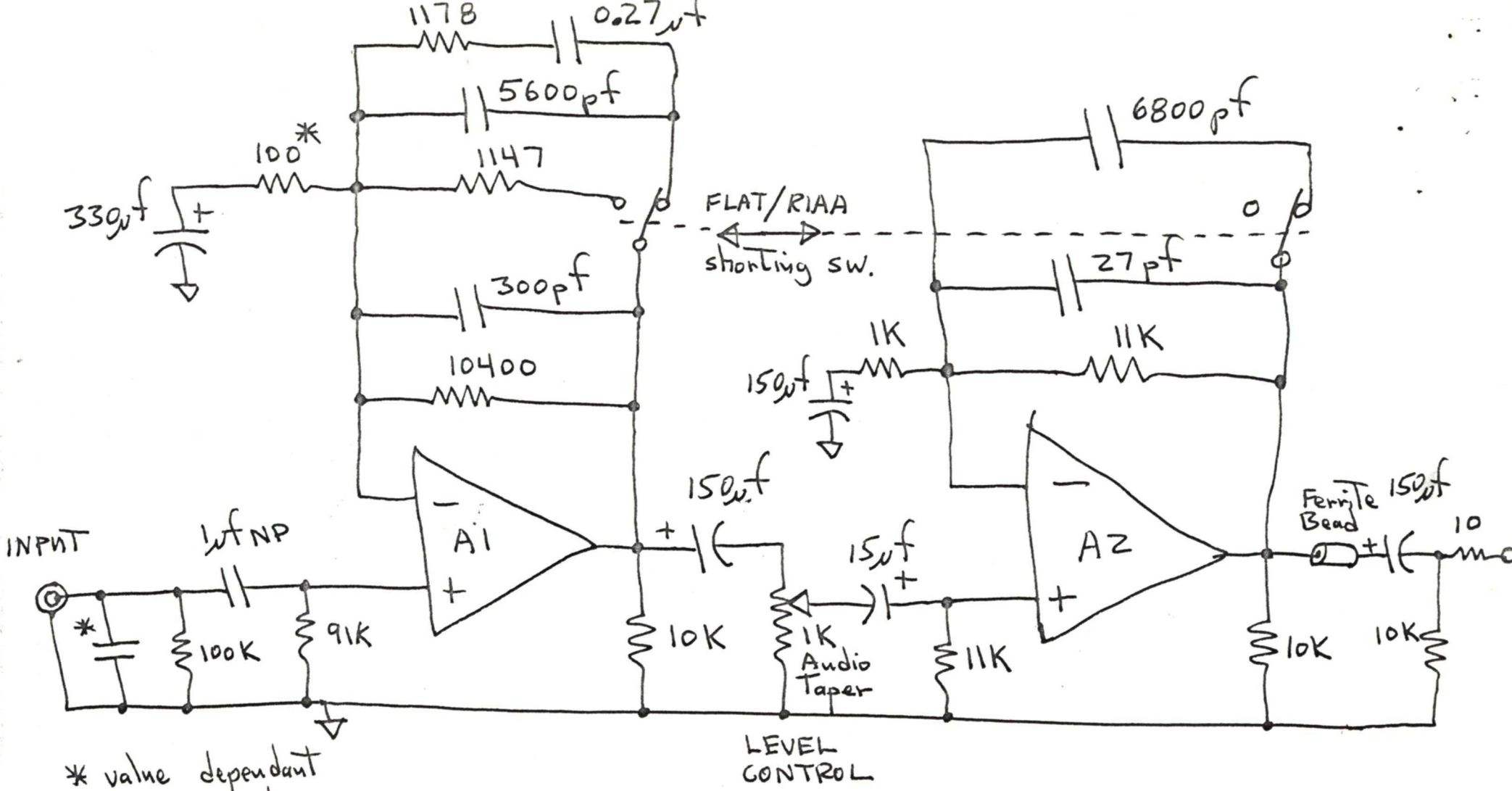
This is an accurate RIAA reproduce amplifier with Two gain stages for high maximum input level capability and low distortion, (<0.006% at 20 kHz w/+20 dBV re. 0.775V output w/ R_L = 600 ohm

The RIAA/FLAT switch does not change 1 kHz gain. The 3 pole active rumble filter is optional and bypassable. So also the equalization stage for cartridge compensation. The eq section data gives values for Typical curves and frequencies, interpolation will yield frequencies for individual cartridge requirements. Note that both the high freq shelf and mid-freq peaking curves are paired for view-thru horizontal slide rule evaluation to aid in ckt value selection.

Please feel free to call me for farthur info.

Regards
Deane Jensen.

1617 NORTH FULLER AVENUE • HOLLYWOOD, CALIFORNIA 90046 • PHONE (213) 876-0059



* value dependant upon cartridge spec.

* Trim the 100 ohm R to adj. max. gain.

A1 & A2 are 918 Type descrete amps

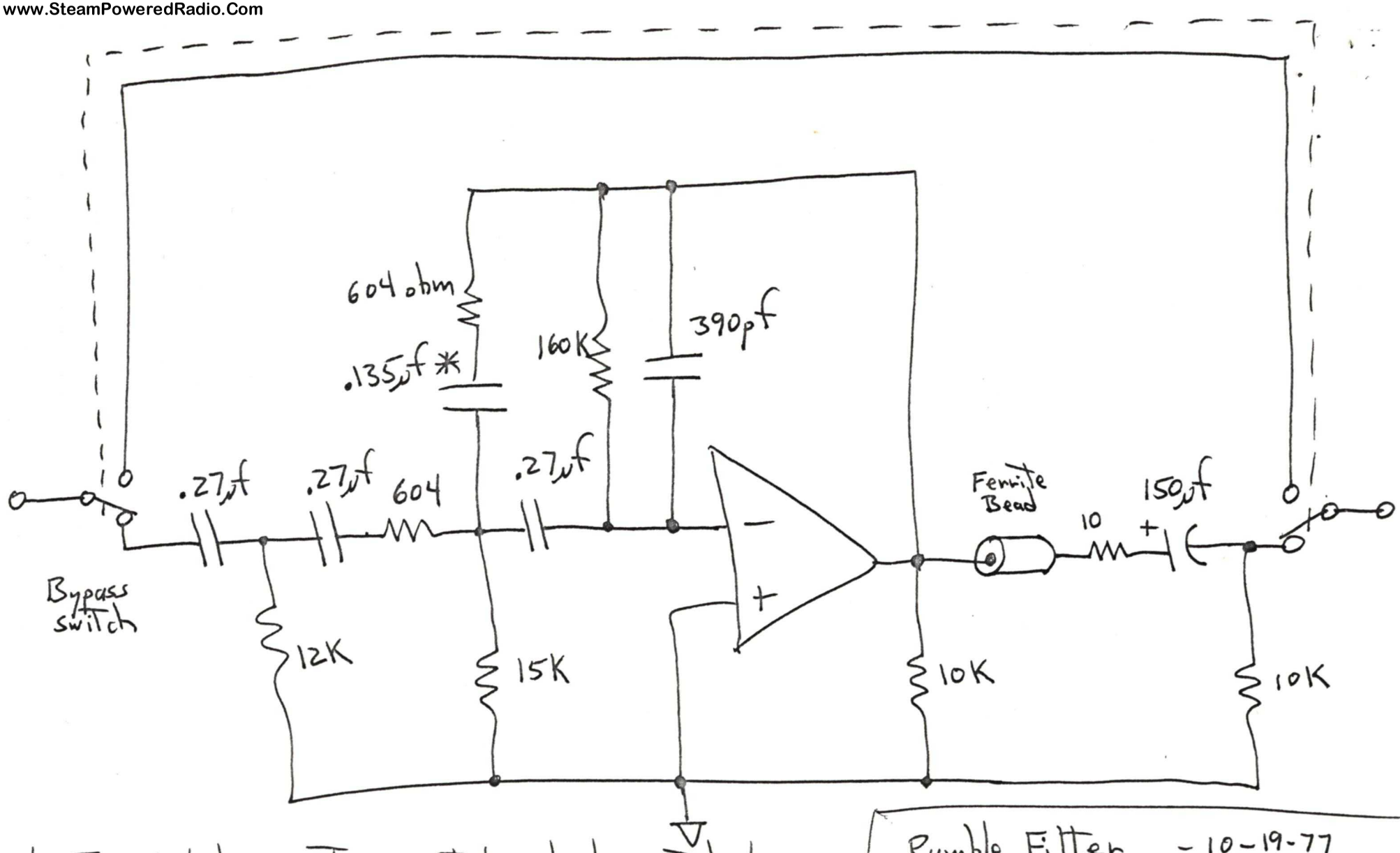
Ferrite Bead is Type FB-2

10 ohm resistor at output should be omitted if output Transformer is used.

1KHz gain is +42.8 dB in both switch positions

2 STAGE RIAA REPRODUCE AMPLIFIER

Revised - 10-19-77



- The two 604 ohm resistors must be closely matched for flat high frequency response, the absolute value is not critical.

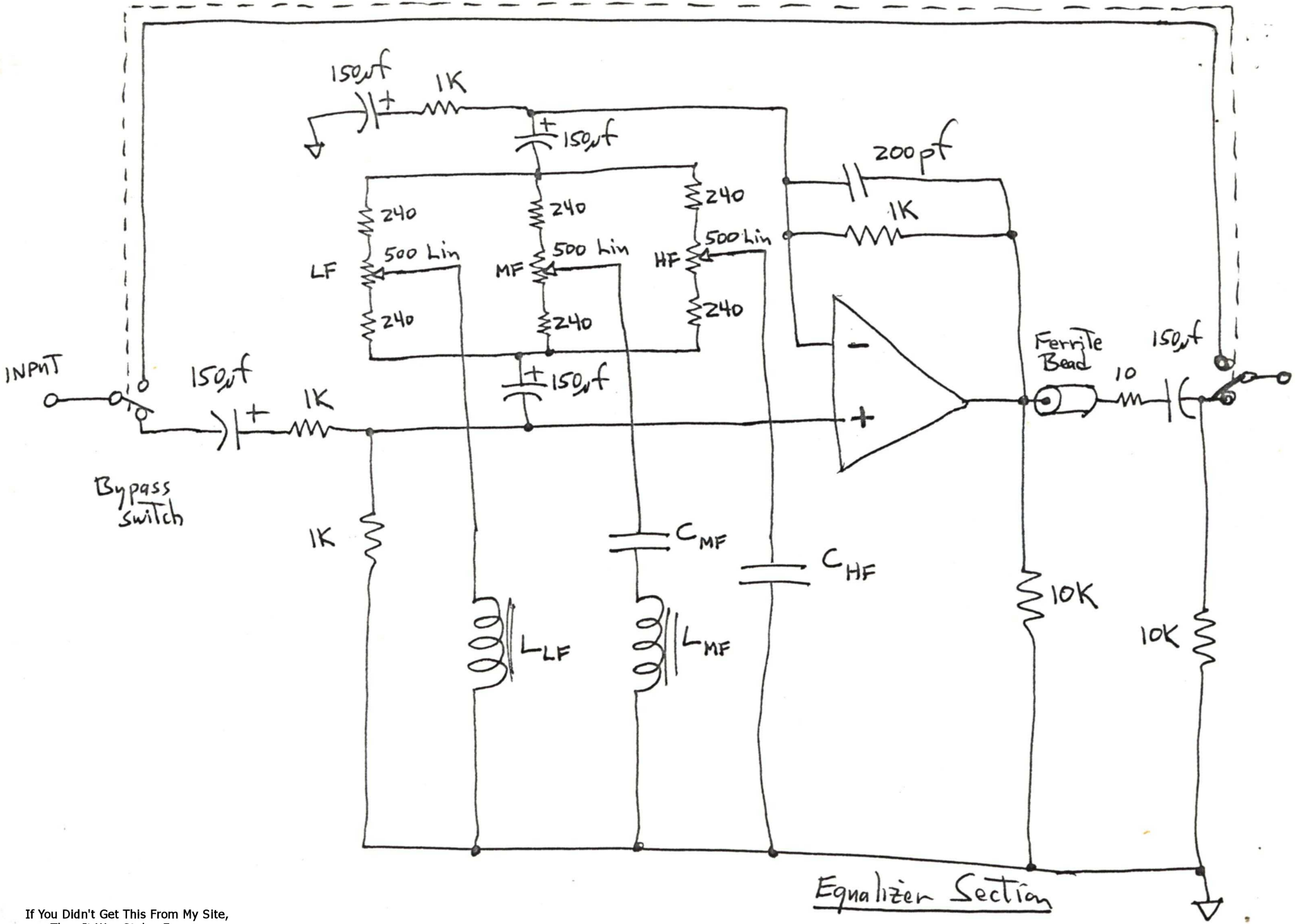
* - Trim the 0.135µf cap. value to adjust passband gain.

Rumble Fitter - 10-19-77

Stabilized 3 pole HP Butterworth

-0.5 dB @ 30 Hz

-17 dB @ 10 Hz



8-21-77 DATE | 1 PAGE

Phono pre - EQ section

Mid-range peaking eq
ckt R's = 1000 ohm

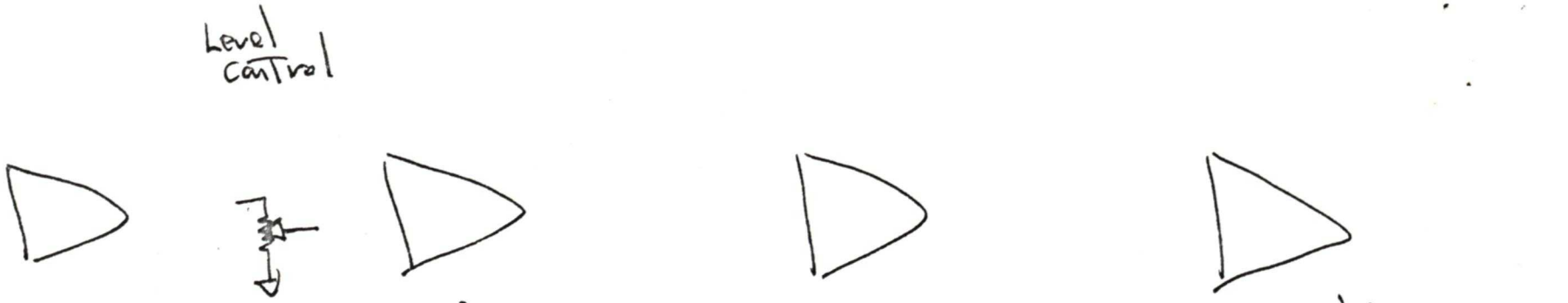
Freq	L	C	
100	563 mH	4.5 µf	MF section # 1
300	188 mH	1.5 µf	
500	101 mH	1 µf.	
700	76.0 mH	0.68 µf	
3 KHz	18.763 mH	0.15 µf	MF section # 2
5 K	10.13 mH	0.1 µf	
7 K	7.60 mH	0.068 µf	
9 K	6.25 mH	0.05 µf	

Low frequency section. $f = R/2\pi L$

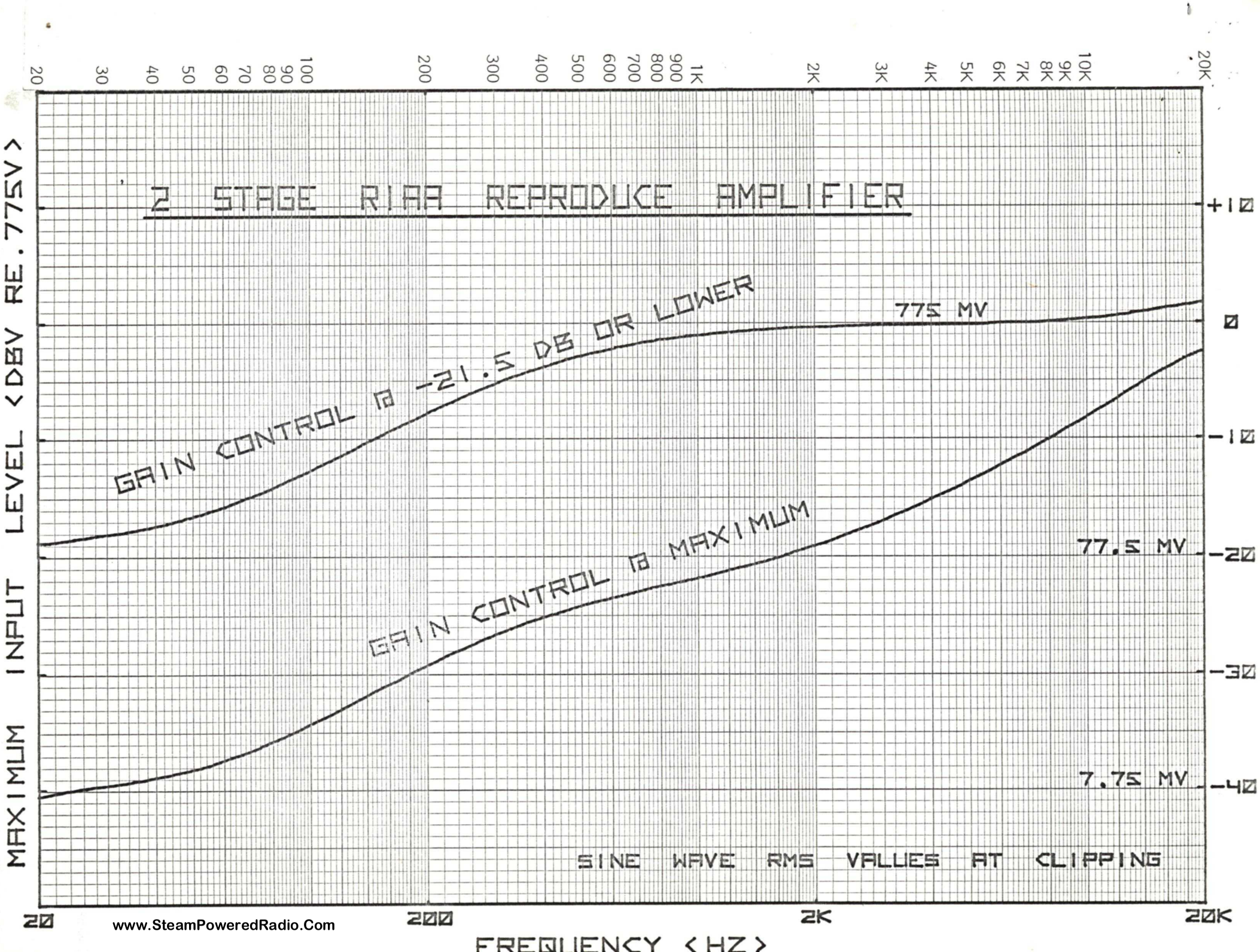
L		label
800 mH	(99.5 Hz)	100 Hz

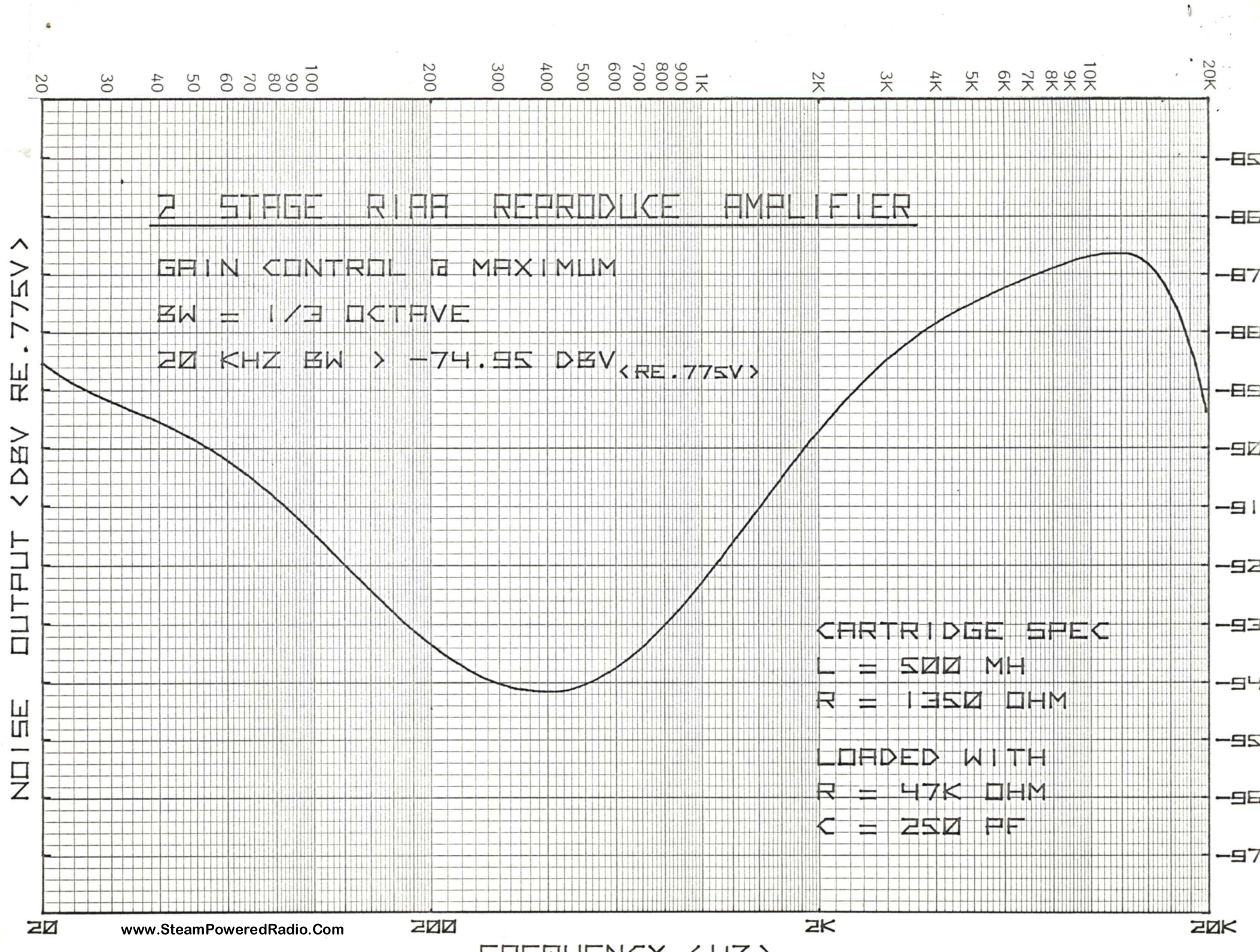
HF section. $f = \frac{1}{2\pi RC}$

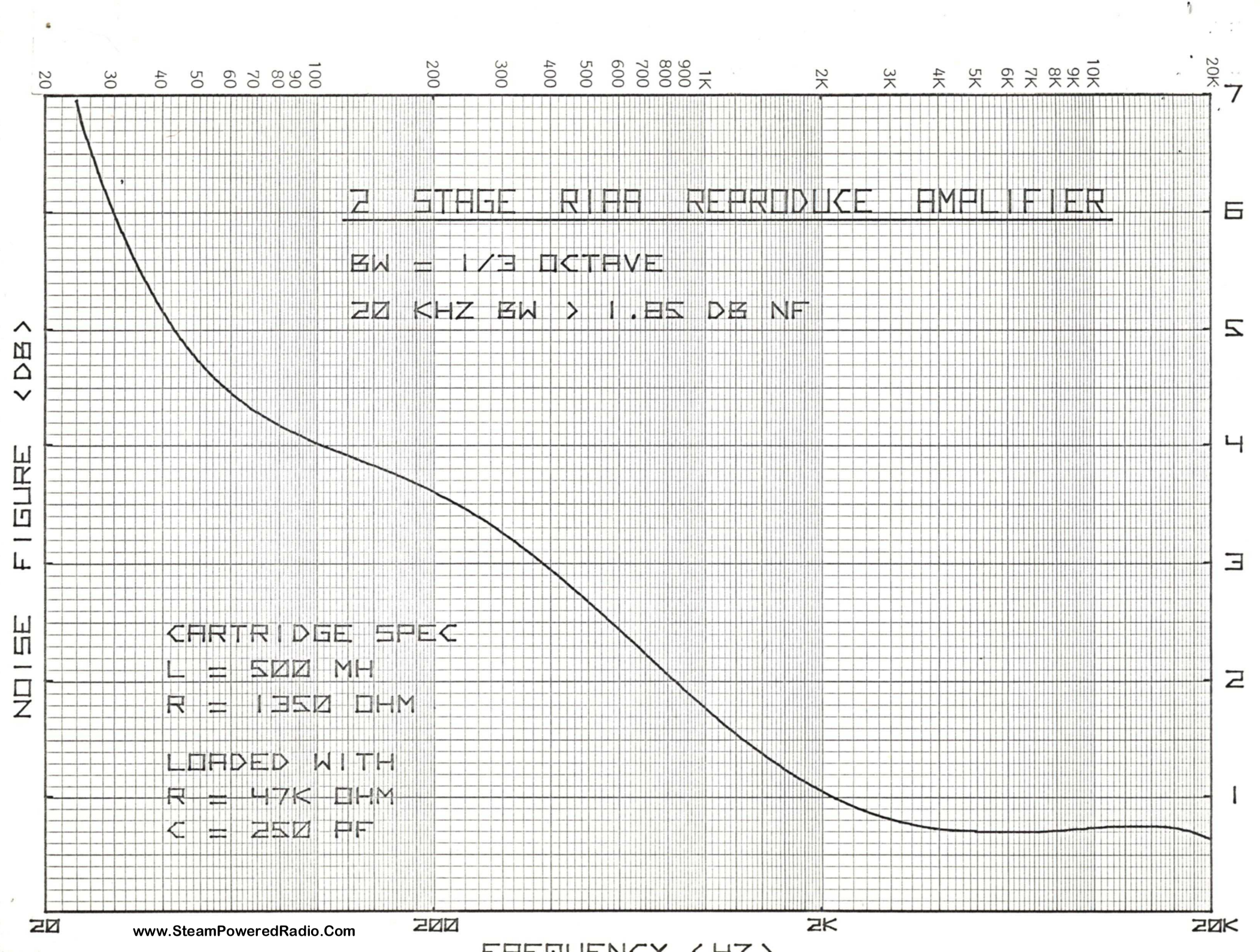
C		
0.1 µf	3180 Hz	3 KHz
0.068	4680 Hz	5 K
0.047	6770 Hz	7 K
0.033	9650 Hz	10 K
0.022 µf	14.5 KHz	15 KHz



Block diagram of phono pre.

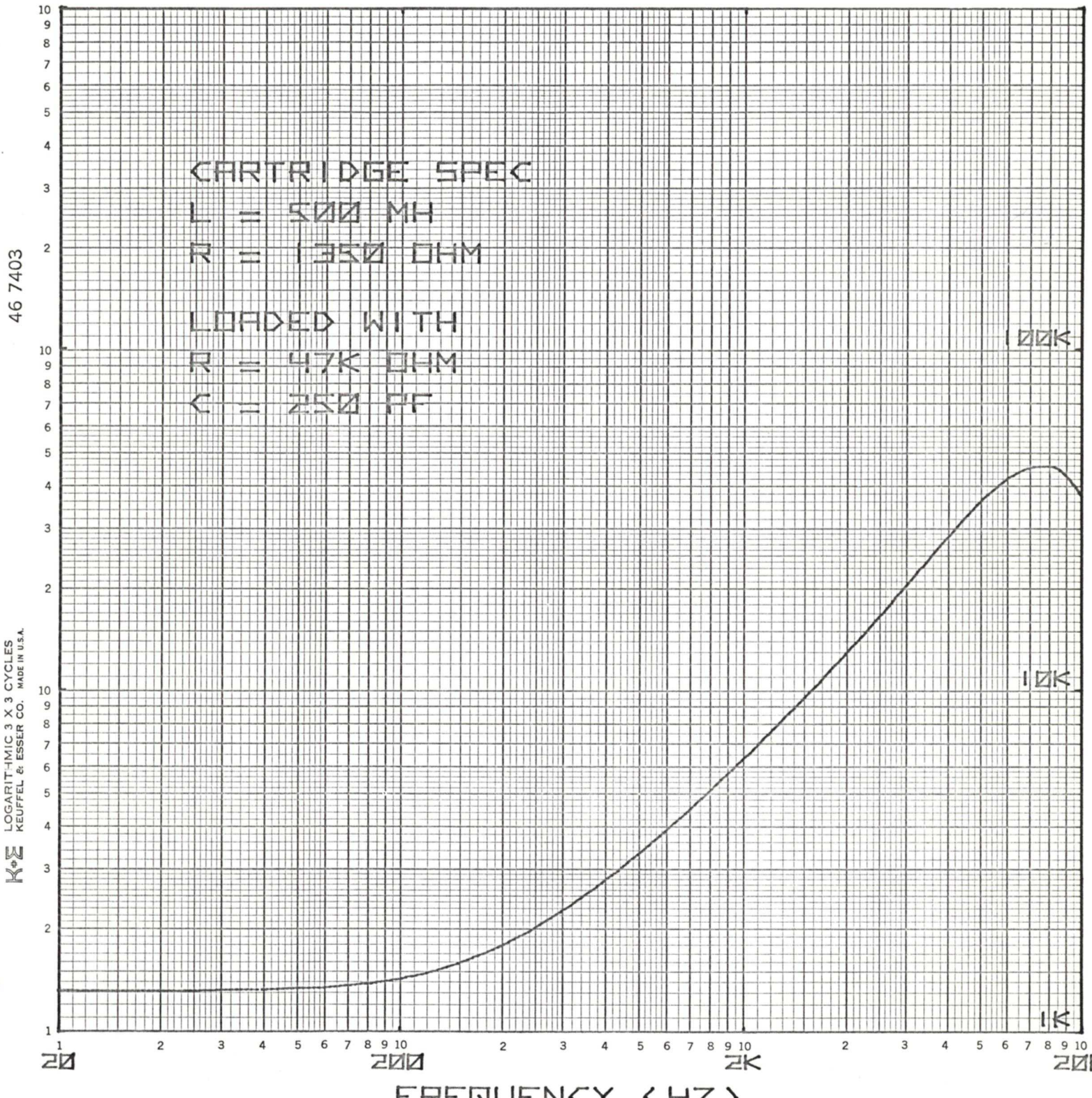


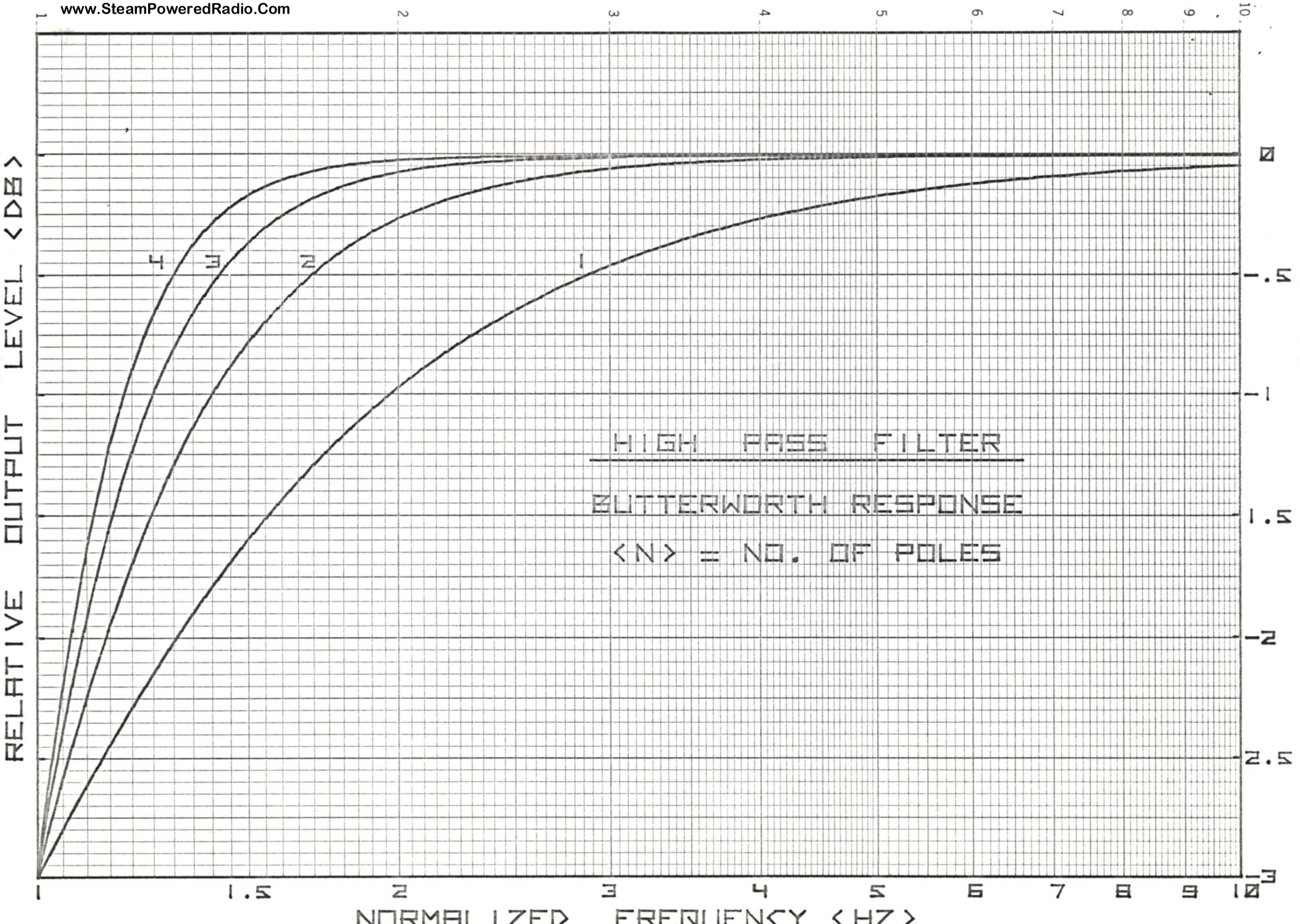




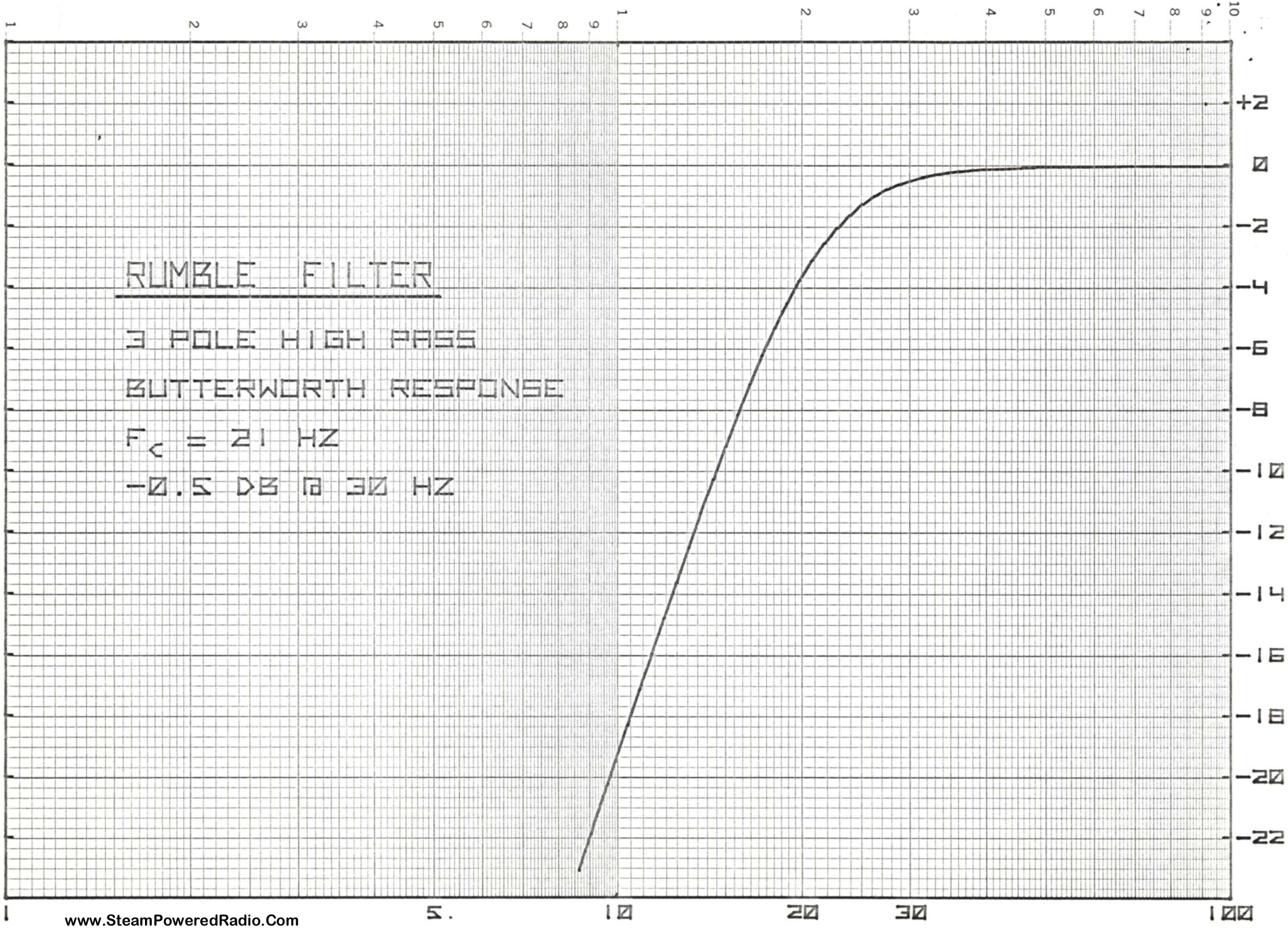
2 STAGE RIAA REPRODUCE AMPLIFIER

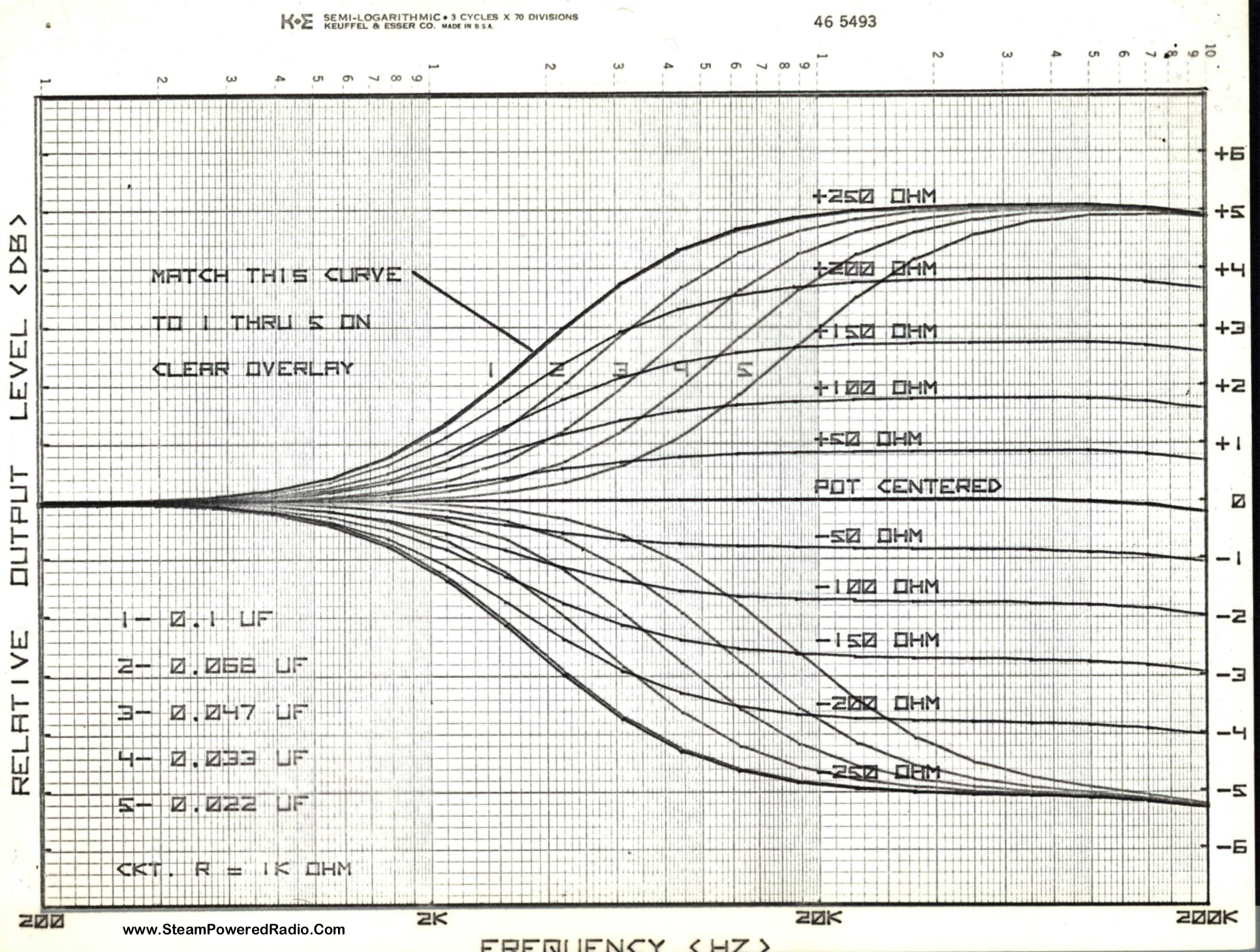
SOURCE IMPEDANCE FOR NOISE MODEL

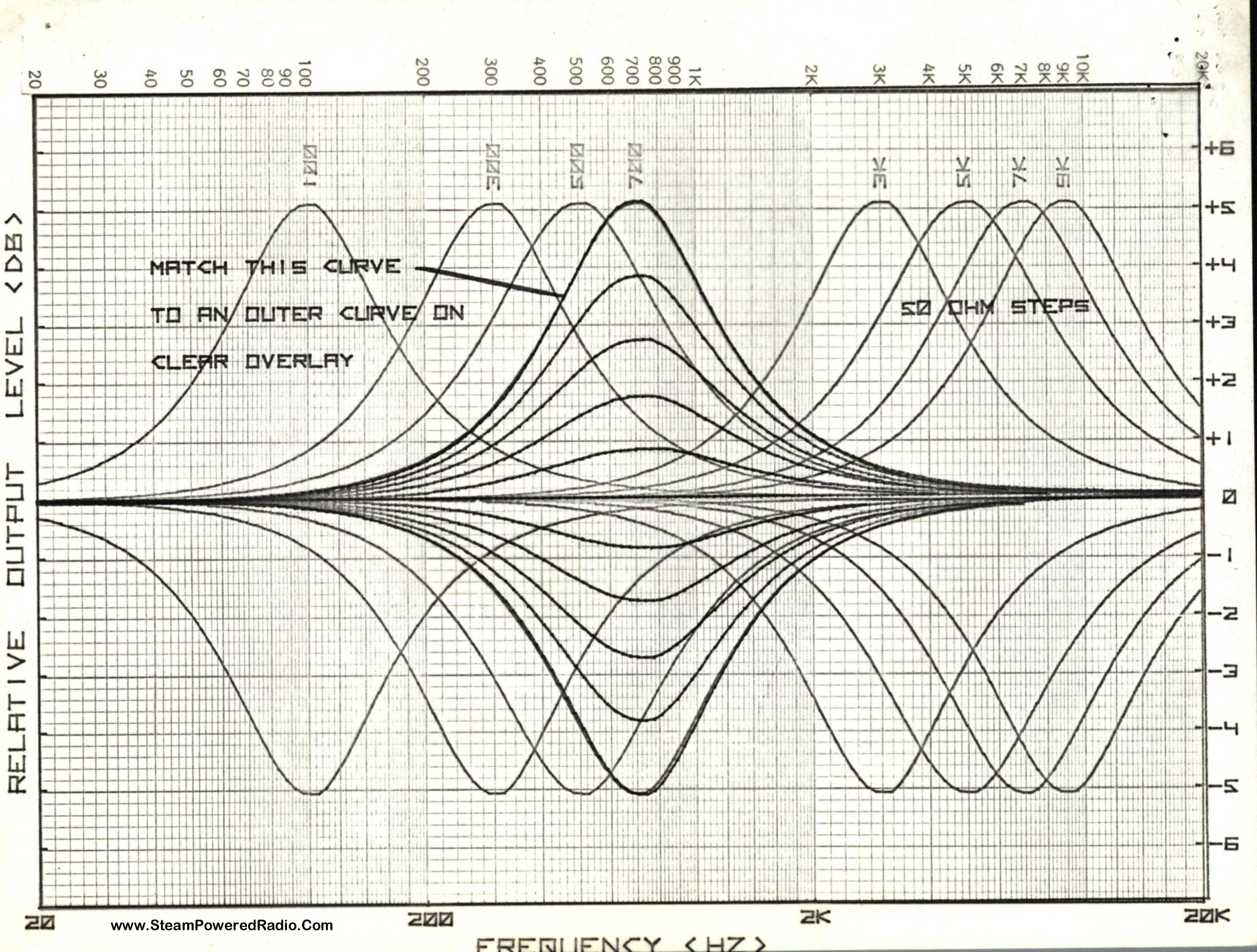




K+E SEMI-LOGARITHMIC 2 CYCLES X 84 DIVISIONS
KEUFFEL & ESSER CO. MADE IN U.S.A.
46 5053







K+E SEMI-LOGARITHMIC • 3 CYCLES X 70 DIVISIONS
KEUFFEL & ESSER CO. MADE IN U.S.A.

46 5493