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iRIAA2

Inverse Filter



Made in USA

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Description

The inverse RIAA Filter is an accurate reference for testing modern phonostages. It provides the inverse transfer function of the RIAA response and level shifting so that a line level signal is converted into exactly what a phonostage input expects. Separate output levels of -40dB and -60dB (referenced to 1kHz) accommodate moving magnet and moving coil stages, respectively.

Specifications

Item	Specification
Accuracy	+/-0.5dB
Gain	-40dB / -60dB @ 1kHz
Output Impedance	660 / 60 ohms

Frequency Response

Each channel matches the ideal inverse RIAA transfer function (with corner added at 3.18us) to within +/-0.5dB.



Tabular Values

Frequency	dB	Frequency	dB	Frequency	dB
10.00	-19.74	223.9	-7.43	5012	8.18
11.22	-19.70	251.2	-6.64	5623	9.04
12.59	-19.64	281.8	-5.88	6310	9.92
14.13	-19.58	316.2	-5.15	7079	10.81
15.85	-19.50	354.8	-4.46	7943	11.72
17.78	-19.40	398.1	-3.81	8913	12.64
19.95	-19.27	446.7	-3.20	10000	13.56
22.39	-19.12	501.2	-2.63	11220	14.48
25.12	-18.94	562.3	-2.11	12590	15.40
28.18	-18.72	631.0	-1.63	14130	16.31
31.62	-18.46	707.9	-1.19	15850	17.23
35.48	-18.16	794.3	-0.77	17780	18.10
39.81	-17.80	891.3	-0.38	19950	18.96
44.67	-17.40	1000	0.00	22390	19.80
50.12	-16.93	1122	0.38	25120	20.61
56.23	-16.41	1259	0.77	28180	21.38
63.10	-15.84	1413	1.17	31620	22.11
70.79	-15.22	1585	1.60	35480	22.80
79.43	-14.55	1778	2.07	39810	23.44
89.13	-13.83	1995	2.57	44670	24.02
100.0	-13.09	2239	3.12	50120	24.54
112.2	-12.31	2512	3.72	56230	25.01
125.9	-11.51	2818	4.36	63100	25.43
141.3	-10.70	3162	5.05	70790	25.78
158.5	-9.88	3548	5.78	79430	26.09
177.8	-9.05	3981	6.55	89130	26.35
199.5	-8.23	4467	7.35	100000	26.57

Installation

Connect the iRIAA2 filter between your line level source and the inputs to your phonostage.

Break-In

For break-in of phonostages, connect a line level signal source (CD player or FryKleaner) directly to the inputs. The -40dB outputs will mimic a stereo moving magnet cartridge and the -60dB outputs a moving coil cartridge. The output of the phonostage under test (PUT) should be a line level signal virtually identical to the original. If not, then there is a phase or frequency response aberration in the PUT.



Schematic

