

A hypothetical 3k3Ohm resistor considered as an equivalent operational amplifier and vice versa!

3156.836[V/A] 0.0002897[A/V]
3451.279[Ohm] 0.03873

OPu=7.232e-9
OPi=2.191e-12
G1k=
Rq=3.3e3
Ltc=
Rdc=
R1=1e6
R2=3.3e3
R3=1e6
df=20000
T=27

3289.146 3300.776 3289.146 1000000 3300 3300 1000000

6.045e-007[V] 0.0001838[V] 68.664[dB]

2.726e-006[V] 0.0008287[V] 55.583[dB]

+12dB => **67.6dB_{RIAA}**

short 0.000439[V] 61.131[dB]

open 0.09421 [V] 14.498[dB]

infinite 0.0005379[V] 59.365[dB]

Riq= 3300[Ohm]

reference 0.4984[V] 0.0007001[V] 57.047[dB]

OPu=7.232e-9
OPi=2.191e-12
G1k=304
Rq=3300
Ltc=
Rdc=
R1=1e6
R2=330
R3=
df=20000
T=27

328.918 3300.776 3289.146 100320 330 3300 1000000

7.223e-007[V] 0.0002203[V] 67.09[dB]

1.877e-006[V] 0.0005726[V] 58.793[dB]

+12dB => **70.8dB_{RIAA}**

short 0.0003135[V] 64.055[dB]

open 0.09451[V] 14.47[dB]

infinite 0.0004422[V] 61.067[dB]

Riq= 3300[Ohm]

reference 0.4984[V] 0.0005536[V] 59.088[dB]

A hypothetical 3k3Ohm resistor considered as an equivalent operational amplifier and vice versa!

3156.836[V/A] 0.0002897[A/V]
3451.279[Ohm] 0.03873

OPu=7.232e-9
OPi=2.191e-12

G1k=304

Rq=3300

Ltc=

Rdc=

R1=1e6

R2=33

R3=

df=20000

T=27

32.892 3300.776 3289.146 10032 33 3300 1000000

7.383e-007[V] 0.0002252[V] 66.9[dB]

1.797e-006[V] 0.0005479[V] 59.176[dB] +12dB => **71.2dB_{RIAA}**

short 0.000312[V] 64.098[dB]

open 0.09451[V] 14.47[dB]

infinite 0.0004411[V] 61.088[dB] Riq= 3300[Ohm]

reference 0.4984[V] 0.0005444[V] 59.233[dB]

The absolute limit of the real life of an MM phono EQ preamplifier ..!

OPu=7.232e-9

OPi=2.191e-12

G1k=100

Rq=3300

R2=33

df=20000

32.673 3300.776 3083.499 3300 33 3300 47000

7.501e-007[V] 7.576e-005[V] 75.802[dB]

1.857e-006[V] 0.0001876[V] 67.927[dB] +12dB => **79.9dB_{RIAA}**

short 0.0001033[V] 73.697[dB]

open 0.001475[V] 50.606[dB]

infinite 0.0001461[V] 70.688[dB] Riq= 3300[Ohm]

reference 0.4672[V] 0.0001747[V] 68.545[dB]