

How to change the overall ax-Amplifier system gain

R18 and R19 Value	Gain of Balanced amp	Gain of balanced amp in dB	Overall gain from input to output of complete amp	Gain Magnitude of complete amp	Required RMS input voltage for 60W RMS into 8 ohms = 22 Vrms
4.7k	0.4	-8dB	22 dB	12.58x	1.75
5.6k	.5	-6dB	23.9 dB	15.7x	1.4
6.8k	.58	-4.8dB	25 dB	17.8x	1.23
8.2k	.7	-3dB	26.9 dB	22.1x	1
10k	.85	-1.4dB	28.5dB	26.6x	0.83
12k	1	0dB	29.9 dB	31.2x	.7
15k	1.2	2.1dB	32dB	40x	0.55

1. For R18 and R19, R20 and R21, it is recommended that 0.1% parts are used, or that like values are matched to within 0.1%. This will set the CMRR to ~55dB.
2. Do NOT use single-ended to balanced cables with the ax-Amp. It requires a fully balanced input signal to work correctly due to the balanced input filter arrangement (R16, R17 and C5).