
Subject: Re: Wide Spread RIAA Phono Stage Inaccuracies by Manufacturers
Posted by [gofar99](#) on Wed, 26 Jan 2022 02:44:42 GMT

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Hi Good thoughts, but my experience is somewhat different. I find that tubes from one company do not always match characteristics with those from another. Several parameters can differ, μ , R_p , residual noise and MillerC. R_p is the thing that seems most often different. I have not found Miller capacitance to be much of an issue although in builds with very high input impedance of the second stage it might contribute some. The formulas I use include that impedance in the calculations and compensate for it. One issue I have with some common formulas is that they don't address R_p well. R_p is necessarily included in the resistance feeding most RIAA passive networks. It is unfortunate that many of the formulas don't clearly indicate that it does and I am sure many builders have wondered why their preamps don't sound quite right. Generally I specify the tube type (not just like 12AX7, but if it actually is a 7025, ECC type or something else including the brand) to minimize errors on diy builds. And not to get too far off course some tubes sound different. A classic example of a type I use is the 5751. Most sound similar with one exception the JJ 5751 is way different. In the end I test all my builds on a scope and use my ears to verify that the sound is as I think it should be. In the end the ears are what matters.
