Subject: PR's question #1 (Inductor cores)
Posted by PR Audio on Thu, 03 Sep 2009 18:30:30 GMT
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Hi, Everyone,

I am going to start asking some questions on ART, as I figure we have some pretty knowledgeable people around here! Hopefully I can contribute some useful information along the line, too.

Some but not all questions will concern speakers; this one does:

Does anyone here have a recommendation as to where I can find inexpensive powdered iron inductor slugs, with good saturation characteristics, maybe .375" to .500" diameter, 1.25" to 1.50" length. These are for inexpensive car audio tweeter crossovers, operating at modest power. A typical value would be .2 or .25 mH. Obviously, air core is "better" on distortion, but, cost, DCR, and size need to be kept down. (Iron core also tends to reduce but not eliminate problems that occur with value shift when an air core inductor is mounted near a steel part of a vehicle.) I do a lot of custom work, so I would hand wind these to whatever exact value needed. However, surplus inductors I could "unwind" a little if need be, are an option. Round "I" cores are an option, but I suspect simple slugs will be cheaper, in these values.

I do not need a lot of these: 100 would probably keep me busy for quite some time!

Thanks!
Paul