Subject: Winding Solutions
Posted by PakProtector on Sat, 17 Sep 2005 11:10:18 GMT
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Hey-hey!!!,There are always compromises to make whilst picking coil geometry. For an audio output secondary, one usually wants a low DCR. But big wire gages take up a lot of radial space in the bobbin...So, if one wants a 16 ga secondary, look at wire with half this x-section area. 19 ga. Put two of them side by side in parallel. Bi-filar is the term for this method. This method also doubles the pitch of the wind, and cuts the number of turns per axial inch in half.Reducing the pitch is a good thing for high ratio designs. 10k:8R requires a turns ratio of ~35:1. We can get the whole layer covered, without resorting to leaving space between the wires.Winding bi-filar is a PiTA. I have tried it with 26 ga. Took making a few kilos of copper wire scrap before I had anything which looked reasonable. NC machines are soooooo much better at this sort of thing. Faster too.cheers,Douglas