Subject: Re: Say John 42
Posted by Forty2wo on Thu, 17 Aug 2006 04:54:10 GMT
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Hi M, I am on a big project for work. I did model a very low DCR transformer I had on hand. I used the tool in PSU2. And direct measurements. Came out to 11.8 ohms. And falls into the don't want to drop on my foot category This with the set value filter I proposed, I don't have it here, 10U-10h-50U maybe? Fed this into a stepped load, 100ma-150ma. And there was a fair amount of ringing. Increasing the R value of the transformer would reduce the ringing. So that is good right…Looking a bit deeper, if you reduce the trans+filter to a basic LCR circuit. You have a tank circuit with a certain 'Q', if you increases the resistive component, be it higher trans resistance, choke resistance, or whatever . you reduce the Q and the ringing . So is this the way to go? I don't think so, it smacks of one dimensional design.More on this later. I did not want to leave you hanging but I am just too busy to do more right now Try picting a low R transformer and change the filter for best result…John