
Subject: choke measurements

Posted by [PakProtector](#) on Sun, 19 Mar 2006 23:42:11 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hey-Hey!!!,I got part of the work done on a single today. Small Ni cored deal, advertised in the kHy inductance. Minimum impedance was at 800 cps, and it was close to 20 Meg(self resonance). At 20kHz it was down to ~200k Ohms, with a trivial few kOhm of winding DCR adding to the shunt capacitance. I am going to use some precision caps to determine two new self resonance frequencies, and plug in to the calculator to determine C_w and L. With these, off to excel and see how the impedance curve fits the L and C impedance curves. I measured two samples, and they were indistinguishable from each other on my bench. It was neat to see theory in action, that's for sure. More to come on some other inductors I have as lab scheduling permits. cheers, Douglas

Subject: Re: choke measurements

Posted by [Wayne Parham](#) on Mon, 20 Mar 2006 15:47:20 GMT

[View Forum Message](#) <> [Reply to Message](#)

Keep us posted, very interesting!

Subject: Re: choke measurements

Posted by [PakProtector](#) on Tue, 21 Mar 2006 23:25:56 GMT

[View Forum Message](#) <> [Reply to Message](#)

Yep, I will...like I said, there's more work to do. It is interesting to see all this shake out. Resonance is an interesting thing. $\Omega \cdot L$ for 4500 Hy is no where near 20 Meg at 800 cps. I'm also interested in seeing how one of mine works, or two of mine, or the yet-to-be-wound one. Still wanting to acquire some of that JFE Supercore Hi-Si stuff. Perm and Sat-levels like Iron, with loss like 80% Ni...I bet it sounds quite good. cheers, Douglas