
Subject: Winding your own

Posted by [Wayne Parham](#) on Tue, 08 Oct 2002 20:15:59 GMT

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Here are a couple of formulas that might help you when winding your own coils: Single layer coils
 $L = NR^2 / (6R + 9X)$ where
 L = Inductance in microHenries
 N = Number of rotations in winding
 R = Radius of wire form
 X = Length of wire form
This formula is for air core coils only and is accurate within 10%.
Multiple layer coils
 $L = 0.8NR^2 / (6R + 9X + 10D)$ where the above variables are used
and
 D = Depth of windings in wire form
This formula is also for air core coils and is accurate within 30%.