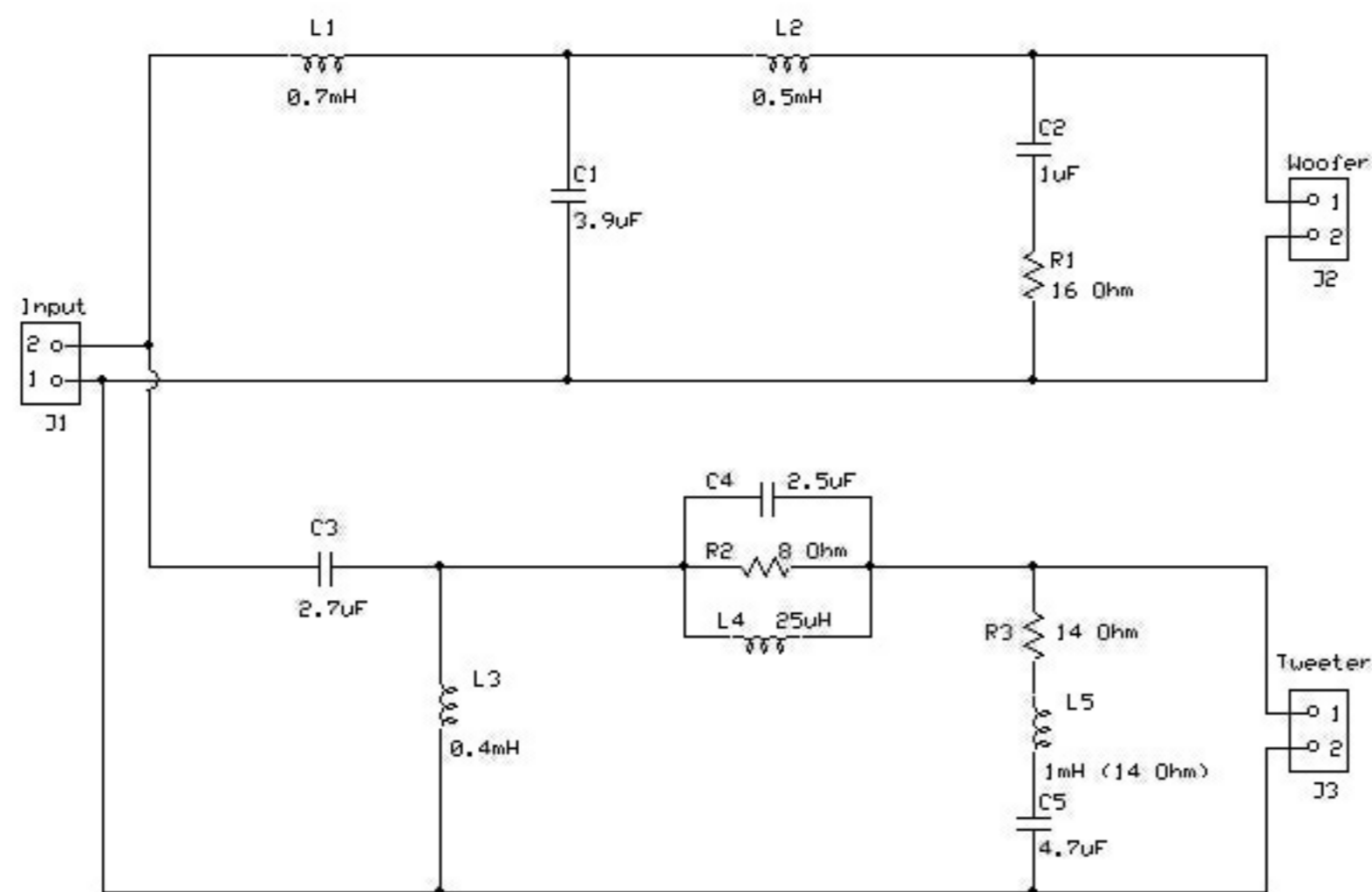


This Straight 8 crossover circuit is offered to the community of Straight 8 builders in thanks for your support. The (14 ohm) notation on the tweeter impedance compensation network coil L5 means that the total of the L5 1mH choke DCR *plus* the value of the R3 resistor in series should be 14 ohms. So for example if your coil L5 DCR is 5 ohms, you need an R3 of 9 ohms. At this time we are not able to offer tech support regarding the design nor are we able to offer consultation on it's modification. If you want to try making some changes, do what we do - build it stock first and then just go for it!



Bottlehead		
Straight 8 Crossover v3.0		
Paul Joppa	Rev 1.0	Page 1 of 1
	2/23/04	

2/23/07

Active Filters:

I can only make an approximate recommendation, since I had not completed my study when the project was killed, and (story of my life!) my notes are in fairly poor order. Still, here's a reasonable starting point:

For the woofer array, try for an 18dB/octave slope at 3.65kHz, Butterworth filter shape.

For the tweeter, us a 12dB/octave slope, Butterworth, at 5kHz. I highly recommend adding the notch filter as a passive filter between tweeter and amp; it is the 2.5uF / 8 ohm / 25uH network in series with the tweeter. Leave out the other components.

As usual, we never tried this as an active, and never completed the study of exactly what would sound the best, so feel free to experiment - this is just the best starting point I have in my notes.

-PJ