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Subject: KSN 1038 as a "Super Tweeter"

Posted by [Wayne\\_Parham](#) on Thu, 21 Jun 2001 07:35:37 GMT

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You might be interested in the post called "Pi implementations of quartz piezoelectric tweeters", and in the links to other threads that are contained in this post. As for a specific suggestion, you might try this:=== 10kHz Filter ===Series Capacitance = 1.0uF Parallel Resistance = 16 ohmsfreq resp=====20kHz -1 dB10kHz -3 dB 5kHz -7 dB2.5kHz -13dBThat will give you some subtle "sparkle" and is probably what you're looking for. Alternately, I'll describe the exact filter you've asked about, which is a first order 20kHz network. If this is what you want, you'll need a capacitor that's exactly half as big as the one listed above. So you'll want a 16 ohm resistor across the tweeter, and a 0.47uF capacitor in series with the tweeter/resistor connection. This will give the following response curve:=== 20kHz Filter ===Series Capacitance = 0.47uF Parallel Resistance = 16 ohmsfreq resp=====20kHz -3 dB10kHz -7 dB 5kHz -13dB2.5kHz -19dBA KSN 1038 using this second filter might add some "air," but it will be crossing over pretty high.

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