Subject: Pi implementations of quartz piezoelectric tweeters
Posted by Wayne_Parham on Thu, 17 May 2001 08:27:17 GMT
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My implementations of the KSN 1038 and compatible quartz tweeters are described in a handful of threads, namely "Variable x-o for motorola KSN1142", "Are all screw-on piezo horn drivers similar?" and "Piezo's." These are all dialog threads - and not just single posts - so one might want to "wade through" entire threads to gain all of what's there. Lots of questions were posted concerning their performance, impedance, suitable crossovers and electronic filter techniques - all of which were discussed in some detail.The KSN 1038 tweeter acts like a 0.1uF capacitance in series with a 10 ohm resistance, and production runs do not vary from these figures by any significant amount. I try to emphasize this fact, because I find many who do not accurately describe the device. The tweeter will be attenuated 3dB by use of a 0.33uF capacitor in series.There is quite a bit of information on the 1038/1041/1056 family of components available on this forum. You will find Motorola's original specification sheet and all the formula and methodology required to successfully implement these drivers in a suitable loudspeaker system.There is no "guesswork," because we're working directly from the specification sheets. So I felt it might be helpful to redirect some of the readers of our recent piezo threads, to those earlier and perhaps overlooked. And thanks to Paul C for sharing experience with the larger piezo devices.