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Subject: Modified Variable x-o for motorola KSN1142  
Posted by [Andy G](#) on Wed, 18 Apr 2001 06:13:42 GMT

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After feedback from John Risch on the Mad Board, I have made the following changes. He actually suggested using switched capacitor values, but I guess what I was trying to do was to make a variable piezo x-o with the components I have in stock. I have 4 of those 8 ohm L-pads in stock, and was trying to find a way of using them, rather than buying extra rotary or other switches. If I remove the 1.5 $\mu$ F cap (doesn't seem necessary) Put 22 ohms across the piezo and add a 15 ohm in series with the parallel leg of the 8 ohm L-pad and push the x-o frequency up to 4500 calculated on 16 ohms (2.2 $\mu$ F), The R1 resistor would be set for the half way position on the L-pad, giving partial cut and gain. (I know that it would not give the same dB cut as on the face-plate of the L-pad, but I wasn't planning to use it anyway.) Do you reckon it would work ok? My calcs seem to indicate that the resistance seen by the x-o capacitor would vary between 15.2 and 16.9 ohms. This is probably quite a bit more stable than a normal driver.

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