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Subject: how to increase piezo power handling  
Posted by [bqc](#) on Mon, 03 Mar 2003 01:49:35 GMT

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How do I increase the power handling of the ksn 1038 without changing the overall efficiency? If I put 2 of them in parallel, the overall efficiency will go up by 6 db. If I put 2 of them in series, the overall efficiency will not change correct? Because doubling the impedance decreases the efficiency by 3db, and doubling the radiating area increases it by 3db so net gain is 0. However these piezos act like capacitors at high frequency that is why you can use them without a filter capacitor, but would putting 2 of them in series result in 1/2 the capacitance at high frequency and therefore shifting the crossover frequency upward?

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Subject: Put 'em in series  
Posted by [Wayne Parham](#) on Mon, 03 Mar 2003 02:50:29 GMT

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You can increase power handling without increasing voltage sensitivity by putting two of them in series. When doing so, keep them close together and align them vertically on the baffle rather than putting them side by side.