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 changingthe overall efficiency?If I put 2 of them in parallel, the overall efficiency will go up by6 db. If I put 2 of them is series, the overall efficiency willnot change correct? Because doubling the impedance decrease theefficiency by 3db, and doubling the radiating area increase it by3db so net gain is 0. However these piezos act like capacitors athight frequency that is why you can use them without a filtercapacitor, but would putting 2 of them in series result in 1/2the capacitance at high frequency and therefore shifting the xoverfrequency upward?

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 withouint 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.