

Re: Voltage to Sound Help

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- *From:* NoSpam@xxxxxxxxxxxxx (Bob Masta)
 - *Date:* Fri, 14 Oct 2005 13:18:25 GMT
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On Thu, 13 Oct 2005 04:23:02 -0400, Pat Deegan
<news**NO_SPAM**@psychogenic.com> wrote:

>Hello,
>
>On Fri, 07 Oct 2005 12:09:28 +0000, Bob Masta wrote:
>> Use a mixer (multiplier) to
>> multiply the received signal
>
>I've always been interested by the idea of using a mixer to play with the
>sum of two frequencies but have never tried.
>
>Can you provide some advice as to what to use? A quick search reveals
>parts like the NE602 and NE612 as possibly useful components (though I
>couldn't locate either at digikey) but I'm wondering if these aren't too
>"high frequency" for uses in the Hz or KHz range.
>
>Any advice?
>
>TIA

Par, I haven't looked into the parts you mention. Basically what you want is a "Four-quadrant multiplier". There are a lot of ways to implement this; traditionally it was done with a diode bridge where you weren't worried about perfect results, such as when the output was going to be filtered anyway. Note that you get both sum and difference components, and at audio frequencies they are hard to separate with filters alone.

Best regards,

Bob Masta
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