
Subject: Re: Reverse attenuation and HF comp. networks, active X-over
Posted by [Chris R.](#) on Thu, 23 May 2002 21:50:45 GMT

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Hi Wayne, Maybe I wasn't clear. What I'm using to divide the frequencies are 18dB VCVS (Sallen-Key) filter stages. To control horn attenuation, I'm putting a balance pot circuit between the inputs for high/low (verses left/right). I was planning on putting the HF comp between the output of the balance buffer and the input of the HP filter. But now you're going to make me install spice or write a perl script to verify what you are saying. Seems to me that at freqs below $1/(2 \cdot \pi \cdot R_s \cdot C)$ (there's that Pi thing again :^), the divider will work more like a divider because X_c will be $> R_s$. Above that freq, the X_c will be less than R_s , hence provide HF boost. It looks a lot like the one used in your x-overs. Wonder where I got the idea.)^:

Rsacsii art time:
--WVW----- |____|____| | | | C #
Rp # # # |I got the filter
circuits from an old Walter Jung OpAmp Apps book from when I was in school. Gee, I know the formulas are close, but I'll have to look them up AGAIN! Thx, Chris