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 frequenciesare 18dB VCVS (Sallen-Key) filter stages. To control horn attenuation,I'm putting a balance pot circuit between the inputs forhigh/low (verses left/right). I was planning on putting theHF comp between the output of the balance buffer and the inputof the HP filter. But now you're going to make me install spiceor write a perl script to verify what you are saying. Seems tome that at freqs below 1/(2*Pi*Rs*C) (there's that Pi thing again :^),the divider will work more like a divider because Xc will be > Rs. Above that freq, the Xc will be less than Rs, hence provide HFboost. It looks a lot like the one used in your x-overs. Wonderwhere I got the idea. )^: Rsacsii art time:
--\/\/\/\------ |___||_____| | || | C #
# Rp # # |I got the filter circuits from an old Walter Jung OpAmp Apps bookfrom when I was in school. Gee, I know the formulas are close,but I'll have to look them up AGAIN!Thx, Chris