Subject: Re: Horn Damping Resistor
Posted by Wayne Parham on Mon, 09 May 2005 21:03:14 GMT
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You'll need to model the circuit in Spice. The damping resistor sets the load on the tweeter circuit's high-pass filter, and therefore sets its Q. Components R1, R2 and C1 do three things: They attenuate the signal for level matching, they provide conjugate response to compensate for the tweeter's falling response, and they set the Q of the high-pass filter to provide a small amount of peaking, just enough to make the first couple of octaves flat. The resulting curve has a shelf of flat response that is followed by an area of rising response, like this: