Subject: Re: A few useful documents
Posted by Chris R on Thu, 30 Oct 2003 18:04:52 GMT
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Hi Wayne, I'm looking at the Lab Circuits at the Pi-over, and the onlything not shown is the amount of attenuation you are getting.I'm assuming its the 8:25, but I've forgotten how to translatethat to dB. Is it 5dB? 10*log(25/8)? Also, how does onego about picking values for different attenuations?On another note, from Ray Alden's book that RatShack sells, heprovides formulas for attenuation that leaves the total loadequal to the original driver. Its a series resistor and oneparallel to the driver. I suppose it wouldn't lend itself to theHF comp. you use. Comments? I've included the perl code if anyonecares.Chris./atten.pl -8 driver Z: [8.00] ohms Series resistor: [4.82] ohms Parallel resistor: [5.29] ohms#!/usr/bin/perl -wif (! @ARGV) { $drop = -6; # dB }else { $drop = shift(@ARGV); }$driver_Z = 8; # ohms# split the load between the driver and the resistor$Rp = (10 ** ($drop / 20)) * ($driver_Z/(1 - (10 ** ($drop / 20))));# calc the the combined impeadance of driver and parallel# resistor, and subtract from original Z.$Rs = $driver_Z - (1 / ((1/$Rp) + (1/$driver_Z)));printf(" driver Z: [%3.2f] ohms\n Series resistor: [%3.2f] ohms\n Parallel resistor: [%3.2f] ohms\n",$driver_Z,$Rs,$Rp);