
Subject: System impedance
Posted by [adavis464](#) on Sun, 23 Jan 2005 13:26:29 GMT
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Is 16 Ohm a better match for amplifiers? My JBL2440 are 16 Ohm I,m getting new tweeters that will be 16 Ohm I could use two midbass in series to get 16 Ohm.

Subject: Re: System impedance
Posted by [Wayne Parham](#) on Sun, 23 Jan 2005 20:11:11 GMT
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Does your amplifier have a 16 ohm tap?

Subject: Re: System impedance
Posted by [adavis464](#) on Sun, 23 Jan 2005 23:57:01 GMT
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Hi Wayne I don't have 16 ohm taps 4 and 8 Cary Audio Rocket88.I'm now running a fostex T90a tweeter and a Jbl 2440 with original diaphragms on a edgar tractix midrange horn.I'm switching to a new tweeter Ev T350 with new 16 ohm diaphragms so thats what the amp will be running with a new midbass.should I use 16 ohm driver or I have a pair of E130-8 Which I'm in the middle of build the horns but was thinking of looking for 16 ohm woofer for this job.See below the 2440 I'm using an 18" pro driver 97db 1w1m Bi-amped and the midbass is lets just say not to par with the rest of my system. Regards Tim

Subject: Re: System impedance
Posted by [Wayne Parham](#) on Mon, 24 Jan 2005 00:03:39 GMT
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If you don't have 16 ohm taps, then you might want to use 8 ohm speakers. It isn't a real bad mismatch, but it probably will rob some of your power transfer and might hurt bass response too.

Subject: Re: System impedance
Posted by [adavis464](#) on Mon, 24 Jan 2005 14:10:08 GMT

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Hi Wayne I'm aware of the power limitations and i'm sure the tweeter and midrange horns impedance are probably on the low side of 16 ohms(more like 10 to 12 in there operating band).Not only that I think they would run ok from 500hz on up with 10 watts.It the midbass at resonance that may be a problem but they only go down to 100hz.The low end will be my 2 18's stacked (parallel 103db1w1m).So i don't think lwill have a bass problem.but from the amp stand point don't they operate more stabble at around 16 ohm? Regards Tim

Subject: Re: System impedance
Posted by [Wayne Parham](#) on Mon, 24 Jan 2005 19:49:31 GMT
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It will probably work just fine. It probably won't be quite as loud at full volume as if load impedance were lower, but it will work.

Subject: Maybe I will change my order to 8 ohm diaphragms
Posted by [adavis464](#) on Mon, 24 Jan 2005 20:41:36 GMT
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Hi Wayne And keep 2440's with the resistor you seem to be indicating that is the case.By the way the speakers I won I'm using the tweeter with 4-radioshack 40-1197's on on open baffle they sound good.The woofer I'm building a bass horn for thanks Wayne you been a great help. Regards Tim

Subject: Re: Maybe I will change my order to 8 ohm diaphragms
Posted by [Wayne Parham](#) on Mon, 24 Jan 2005 21:01:45 GMT
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If your amp is designed for an 8 ohm load, you might be better off using 8 ohm speakers. It isn't usually a problem if impedance rises, but power transfer might be reduced a little bit. Impedance at low frequencies is sometimes more of a problem.Glad you're enjoying the speakers you won in the 25,000th post game. Colin Hester made the donation of the albums; I just agreed to substitute them for speakers if the winner had the albums or didn't have a turntable or whatever. So thanks go to Colin in this case.By the way, what resistor are you referring to? Do you use a damping resistor or some sort of level matching?
