Subject: Woofer/Amplifier questions
Posted by Anonymous on Fri, 29 Nov 2002 06:12:24 GMT
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Take two different amplifiers;Amplifier #1100w into 8 ohms200w into 4 ohms400w into 2 ohmsAmplfiier #2100w into 8 ohms100w into 4 ohms100w into 2 ohmsAmplifier #1 is a conventional design where power doublesas impedance halves.Amplifier #2 is a breed that monitors load and lowers the railvoltages to maintain the same power regardless of load.Two questions.1. If amplifier #2 has variable rail voltages, would clippingoccur sooner at 2 ohms vs. 8 ohms load? Suppose rails are +40v/-40Vat 8 ohms, and +20v/-20v at 2 ohms. I argue that you wouldclip easier on transients at 2 ohms vs. 8 ohm, others say100w = 100w, makes no difference.2. Woofers have an impedance curve that varies with frequency.Hypothetical -> if an 8 ohm woofer's impedance is 2 ohmsat 60hz, does amplifier #1 output 400w @60hz whereas amplifier #2only outputs 100w across all frequencies, in which case, peoplemay interpret amplifier #1 as driving woofers better due tomore power ?