Subject: but
Posted by dbeardsl on Wed, 17 Apr 2002 20:28:12 GMT
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The volts are different cause I'm calculating sensitivity at 1 Watt.thats why it doesn't look right.---the system of equationsWatts = Current * VoltsVolts = Current * Resistance---expanded solutionso Watts = Current^2 * Resistanceso Current^2 = Watts / Resistanceso Current = sqrt(Watts / Resistance)since Volts = Current * ResistanceVolts = sqrt(Watts / Resistance) * Resistanceso Volts = sqrt(Watts * Resistance)so 2.83V = sqrt(1W * 8) for 8 ohms.2V = sqrt(1W * 4) for 4 ohms.If you measure sensitivity at 2.82V/1M, then the Voltage will be the same and Wattage will be different.