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Subject: Re: Speaker Voice Coil Cooling System Valve - Initial Tests

Posted by [ToFo](#) on Wed, 29 Jun 2005 14:55:53 GMT

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Wow, internal heatsink, crazy! As a quiet pc enthusiast I have considerable experiences to share in a couple of areas. You may already know these, but it can't hurt, so... Steel and iron are bloody awful as a heat sink material. About 1/4 of the efficiency of aluminum or copper. You will never get great cooling from a speaker pole, but you can make it better. A great thermal interface for your aluminum capillary or fluted pipe might do it. While we may never escape thermal runaway, we only need to significantly raise the threshold to be a success. My two cents is to go with the best thermal paste you can get. Using better paste will give you a 3-5 degree celcius advantage on a cpu. Most dismiss this seemingly tiny "advantage", but my experiments show that on otherwise identical systems, you would have to use twice the airflow to match the effect of the better paste. Try your best to get a really nice fit on the sink in the pole. Paste manufacturers say the thinner the paste the better the transfer, so close fit is it. Thomas

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