

Design Tid-Bit

When designing cooling apertures in a shielded enclosure, we frequently must strike a balance between shielding performance for EMC and cooling performance for component functionality and reliability. When air-moving devices are used, they can be sped up to increase the airflow through an aperture, but at the cost of acoustical noise. For a typical fan and aperture, the noise level doubles with every 60% increase in fan speed. A good alternative in these cases is to make the aperture deeper so that the opening(s) can be wider. The deeper, wider aperture provides equivalent shielding performance as a thinner, narrower aperture, which helps the product achieve its EMC, thermal, and acoustical design goals.

—Sam Connor, IBM

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Congratulations for your elevation to the grade of Senior Member of the IEEE Electromagnetic Compatibility Society. The Senior Member grade constitutes a mark of recognition of your high professional standing and experience. Only 3%, approximately, of the entire IEEE membership hold the grade of Senior Members, and we are proud to have you joining this prestigious class.

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Note: The list shown is current as of press time and includes names of members elevated to Senior Member status since April 2008. If your name was inadvertently omitted from this list, please accept our apologies and contact Colin Brench, EMC Society Membership Coordinator, at colin.brench@ieee.org.