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Subject: Resonance

Posted by [Mike.e](#) on Sun, 07 Nov 2004 08:04:22 GMT

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A unit with higher rate of roll off has worse transient response. I guess because its more reactive over a smaller area. Better > worse response 1st order dipole 2nd order Sealed/horn 4th order Ported 4th/6th order Bandpass 8th+ Bandpass Ports use stored energy to enhance bass output. The air has mass, the method of the port stores energy til 'later'. When designing bandpass subs, the whole idea of them is loudness, so quality suffers. Cone excursion on bandpass systems are lower than ported and sealed-but the fact is, in the time domain, once started in motion the sound doesn't stop quickly enough on a resonant system

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