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Subject: Dipole/Bipole Transmission Line

Posted by [Villain3g](#) on Wed, 09 Dec 2009 00:41:52 GMT

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I've got four Dayton RS 100-4's. I want to use them in a pair of bipole/dipole transmission lines tuned to 80hz. Im also going to attempt to laminate plywood to achieve a curved line. I have some questions:

Can two drivers occupy the same t-line?

Does the second driver's Sd affect the line length or cross section area?

Should they be wired bipole, dipole, or switchable?

Would curving the line be superior to the traditional folded line?

Attached is an un-proportional sketch... In the picture you can see a brace incorporated into one of the laminates to lock in the drivers.

I'm still in the brainstorming stage, any input is appreciated. The goal is to have them done by Christmas... We'll see

Specifications: \* Power handling: 30 watts RMS/45 watts max \* VCdia: 1" \* Le: .67 mH \* Impedance: 4 ohms \* Re: 3.0 ohms \* Frequency range: 80-20,000 Hz \* Fs: 80 Hz \* SPL: 87.2 dB 2.83V/1m, 84.2 dB 1W/1m \* Vas: .07 cu. ft. \* Qms: 3.10 \* Qes: .57 \* Qts: .48 \* Xmax: 4mm \* Sd: 37.4 cm<sup>2</sup>

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### File Attachments

1) [DSC01386.JPG](#), downloaded 14647 times

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