
Subject: Position of nulls from adjacent sound sources

Posted by [Wayne Parham](#) on Thu, 05 Aug 2010 03:16:08 GMT

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I think you are talking about two 18" woofers with their edges 4" to 6" apart, so roughly 22" to 24" center-to-center. If that's so, you can calculate the angle where the nulls will be at their maximum using the formula below:

where:

d_1 is the center-to-center distance between sound sources

a is the half-angle between nulls ($2a$ is the arc between nulls)

so:

$d_1 = 0.61\text{m}$ (24") between the woofer centers

$a = 20^\circ$ or $2a = 40^\circ$ (arc between nulls)