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Subject: Re: Interesting New Line Array Design

Posted by [darkmoebius2](#) on Wed, 30 Sep 2009 00:20:36 GMT

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selahaudio wrote on Tue, 29 September 2009 09:38I've used the Aura version (they may make these too) and it's exceptionally good. This is a great option and has serious extension advantages over the Peerless 830987 3" I was looking at. Scaena uses this driver(modified) in their \$60k-80k line arrays.

#### Electrical Data

Nominal Impedance  $Z_n$  8 ohm

Minimum Impedance  $Z_{min}$  6.4 ohm

Maximum Impedance  $Z_o$  50.6 ohm

DC Resistance  $R_e$  6.1 ohm

Voice Coil Inductance  $L_e$  0.5 mH

#### TS Parameters

Resonance Frequency  $f_s$  103 Hz

Mechanical Q factor  $Q_{MS}$  5.9

Electrical Q factor  $Q_{ES}$  1.12

Total Q factor  $Q_{ts}$  0.94

Ratio  $f_s/Q_{ts}$   $F$  110

Force Factor  $Bl$  2.95 Tm

Mechanical Resistance  $R_{ms}$  0.28 Kg/s

Moving Mass  $M_{ms}$  2.45 g

Suspension Compliance  $C_{ms}$  965.2 mm/N

Effective cone diameter  $D$  6.3 cm

Effective Piston Area  $s_d$  31.1 cm<sup>2</sup>

Equivalent Volume  $V_{as}$  1.16 ltrs

Sensitivity 2.83V/1m 83.8 dB

Ratio  $Bl/v$   $R_e$  1.4

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