



Engineering Standard

Date Effective

Number

5/8/02

220029

Engineering Design
Specification

Date Revised

Rev Number

A

K2.S5800

Acoustical and Electrical Specifications

System:

<i>Sensitivity:</i>	95 dB for 2.83V @ 1M
<i>Rated Impedance:</i>	8 ohm
<i>Minimum Impedance:</i>	4.7 Ohm @ 100 Hz, 4.5 Ohms @ 30 kHz
<i>Impedance Curve:</i>	See Page 5
<i>Frequency Response (-6 dB):</i>	50 Hz to 40 kHz (Anechoic)
<i>f3 (-3 dB):</i>	60 Hz
<i>Sound Power:</i>	See Page 8
<i>Harmonic Distortion, 96dB:</i>	See Page 6
<i>Power Compression:</i>	Less than 0.5 dB @ 100dB SPL
<i>Crossover Frequencies:</i>	800 Hz, 10 kHz
<i>System Polarity:</i>	E.I.A.

System Component Specifications

Driver(s)	Size	Supplier	Model #	Specification
<i>Bass Transducers:</i>	12"	JBL Pro	1200FE	Spec #
<i>High Frequency Transducer:</i>	3"	JBL Pro	435AI	Spec #
<i>UHF Transducer:</i>	1"	JBL Pro	045Ti	Spec #

Network:

<i>Voltage Drive:</i>	See Page 7
<i>Schematic:</i>	See Page 9

Amplifier:

N/A

K2.S5800**System Physical Specifications***may be superceded by information on the drawings***Cabinet:**

<i>HWD, inches</i>	49" H X 17" W X 14.75" D, Plus spike feet
<i>Enclosure Volume</i>	4.5 Cubic Feet
<i>Material</i>	MDF
<i>Panel Thickness</i>	1"
<i>Finish</i>	Medium Brown Mahogany, Satin
<i>Sub Enclosure</i>	None
<i>Bracing</i>	Vertical, Horizontal , side to side and front to back stiffners
<i>Grille</i>	Plastic grille frames with dark gray cloth
<i>Grille Cup</i>	8, molded rubber
<i>Port</i>	2 rear firing, 2.75 diameter, 30 Hz tuning
<i>Lining</i>	1" Fiberglass
<i>Terminals</i>	Metal, 5-Way Binding Posts, Gold Plated
<i>Network Controls</i>	Bi-Amp Switch, 3 Position HF Level Switch
<i>Badging</i>	Polished silver JBL Logo
<i>Foilcals</i>	None
<i>Feet</i>	Adjustable spike feet with floor protection pad
<i>Weight</i>	200 lb
<i>Accessories</i>	None

K2.S5800**System Test Specifications***production testing quantities per JBL QA AQL***System:**

<i>Frequency Response:</i>	Window	Averaging	Slope
	+/- 1.5 dB, 50 Hz to 6 kHz	1/3 Octave	36dB/Octave
	+/- 2.0 dB, 6 kHz to 20 kHz	1 Octave	36dB/Octave

Microphone Position: On HF @ 1 meter.

<i>Dynamic Test:</i>	<i>Sine Sweep Voltage:</i>	6 V
	<i>Frequency Range:</i>	20 Hz to 20000 Hz
	<i>Sweep Duration:</i>	5 seconds

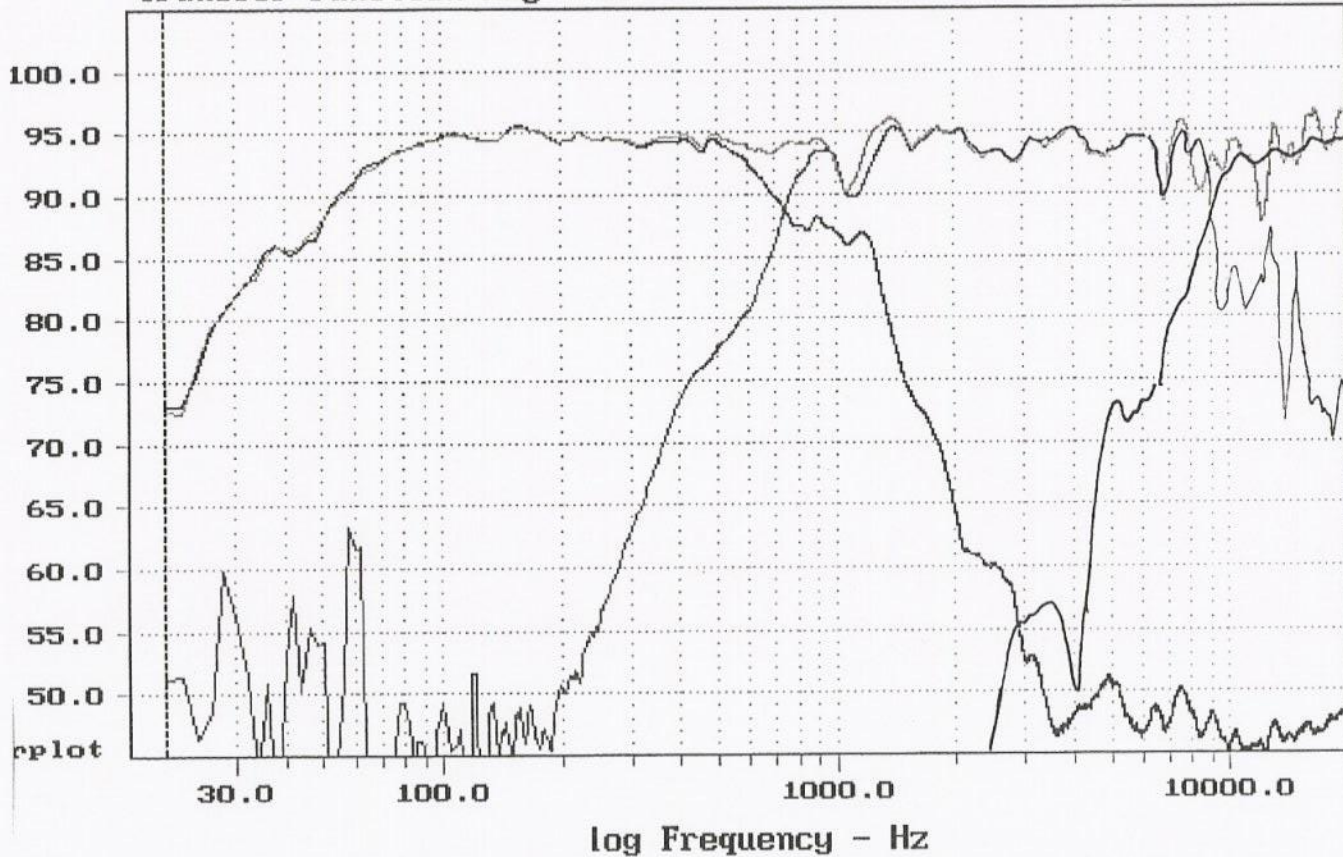
<i>Power Test:</i>	<i>Input Signal:</i>	20 V, IEC Shaped Noise
	<i>Duration:</i>	8 + 92 Hours
	<i>Control Settings:</i>	N/A

Polarity Test: EIA for LF and HF, UHF Reverse*Environmental Test:* HCG/JBL Spec #*Transit Test:* A.S.T.M. **DC-4***Visual Criteria:* HCG/JBL QA Spec #**Network:**

<i>Voltage Drive:</i>	Window	Averaging	Slope
<i>LF, 8 Ohm</i>	+/- 0.5 dB, 20 Hz to 200 Hz	1/6 Octave	36dB/Octave
	+/- 0.7 dB, 200 Hz to 800 Hz	1/6 Octave	36dB/Octave
	+/- 1.0 dB, 800 Hz to 1600 Hz	1/6 Octave	36dB/Octave
	+/- 1.5 dB, 1600 Hz to 8000 Hz	1/3 Octave	36dB/Octave
<i>MF, 8 Ohm</i>	+/- 1.5 dB, 100 Hz to 400 Hz	1/3 Octave	36dB/Octave
	+/- 1.0 dB, 400 Hz to 800 Hz	1/6 Octave	36dB/Octave
	+/- 0.5 dB, 800 Hz to 6000 Hz	1/6 Octave	36dB/Octave
	+/- 1.0 dB, 6000Hz to 12000 Hz	1/6 Octave	36dB/Octave
	+/- 1.5 dB, 12000 Hz to 20000 Hz	1/6 Octave	36dB/Octave
<i>HF, 8 Ohm</i>	+/- 1.5 dB, 200 Hz to 4000 Hz	1/3 Octave	36dB/Octave
	+/- 1.0 dB, 4000 Hz to 12000 Hz	1/6 Octave	36dB/Octave
	+/- 0.7 dB, 12000 Hz to 40000 Hz	1/6 Octave	36dB/Octave

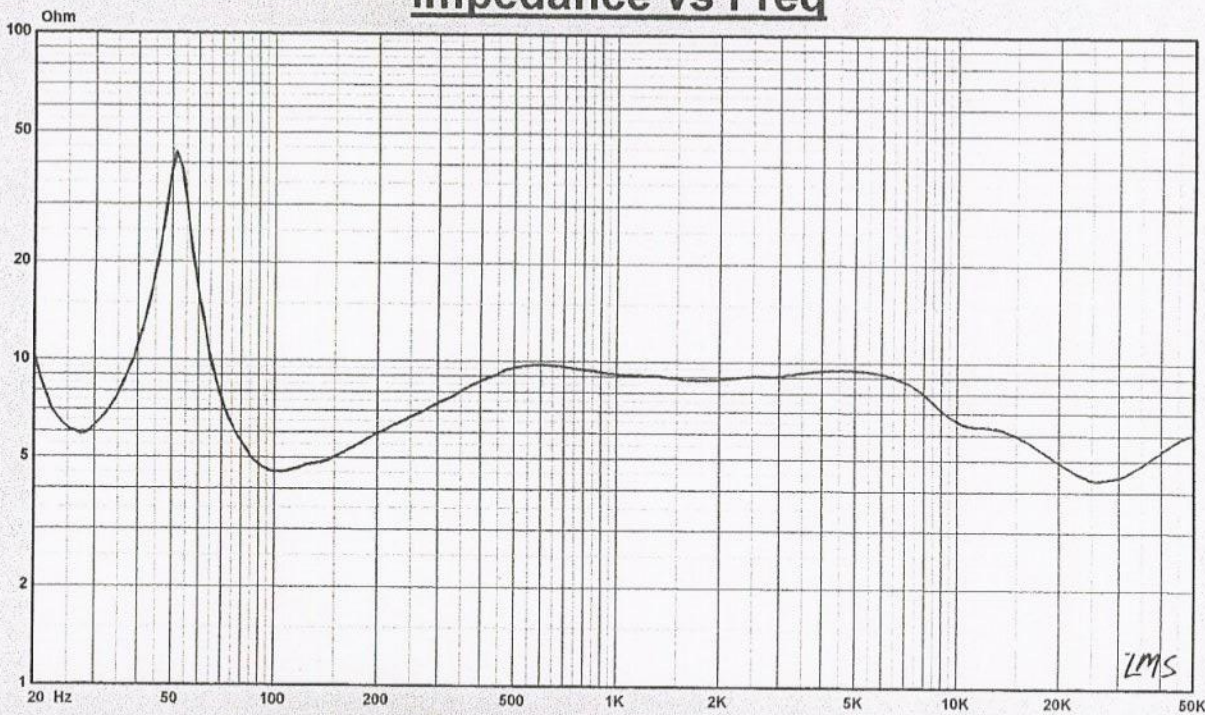
K2.S5800

Transfer Function Mag - dB volts/volts (0.05 oct)(eq)



K2.S5800

Impedance vs Freq



Map

— 8: S5800 REV 4, IMP

Notes

Data Measured: Mar 21, 2002 Thr 9:51 am

ZMS 4.3.0.281
Jan/16/2001

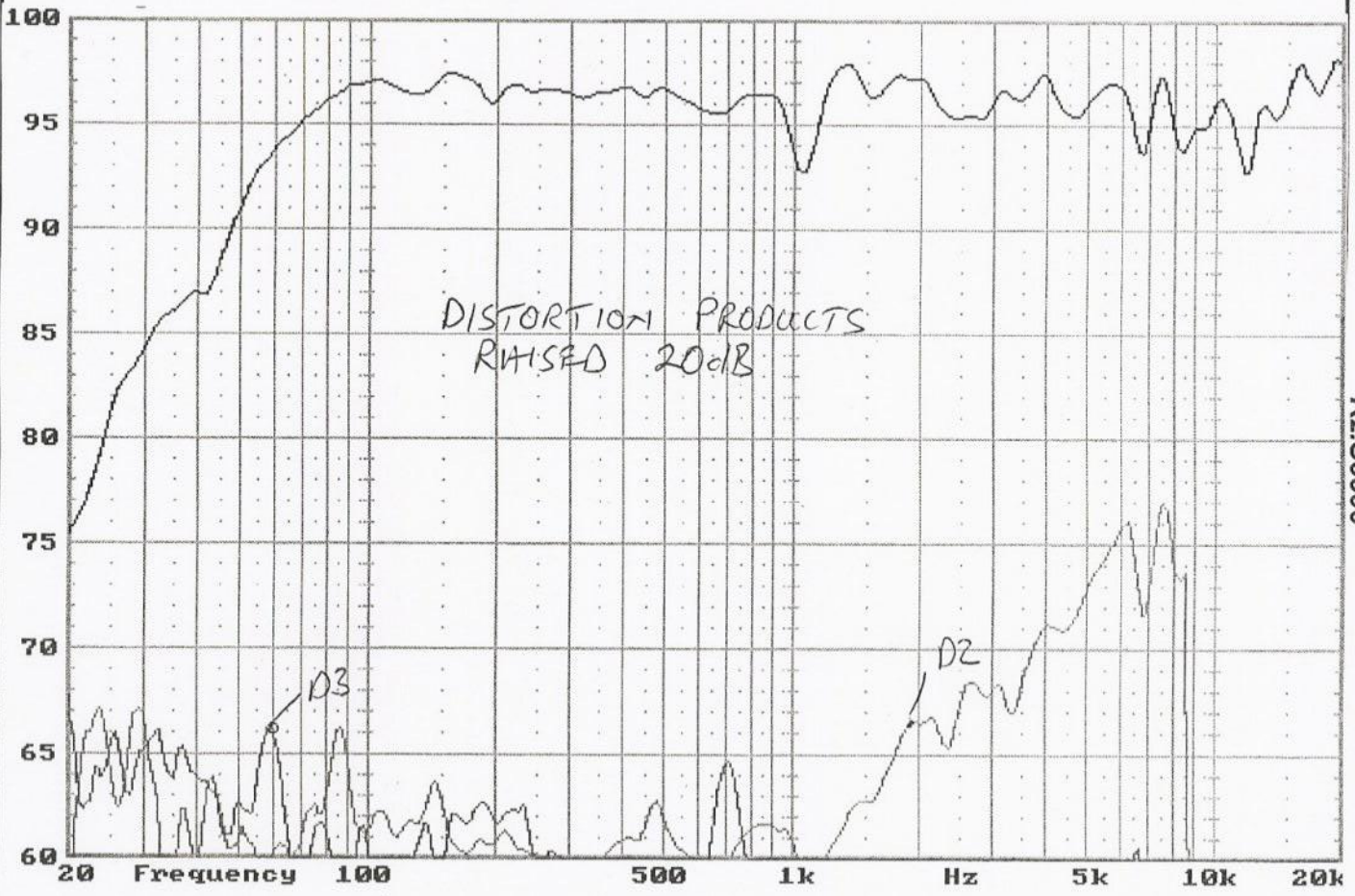
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Company:

Project:
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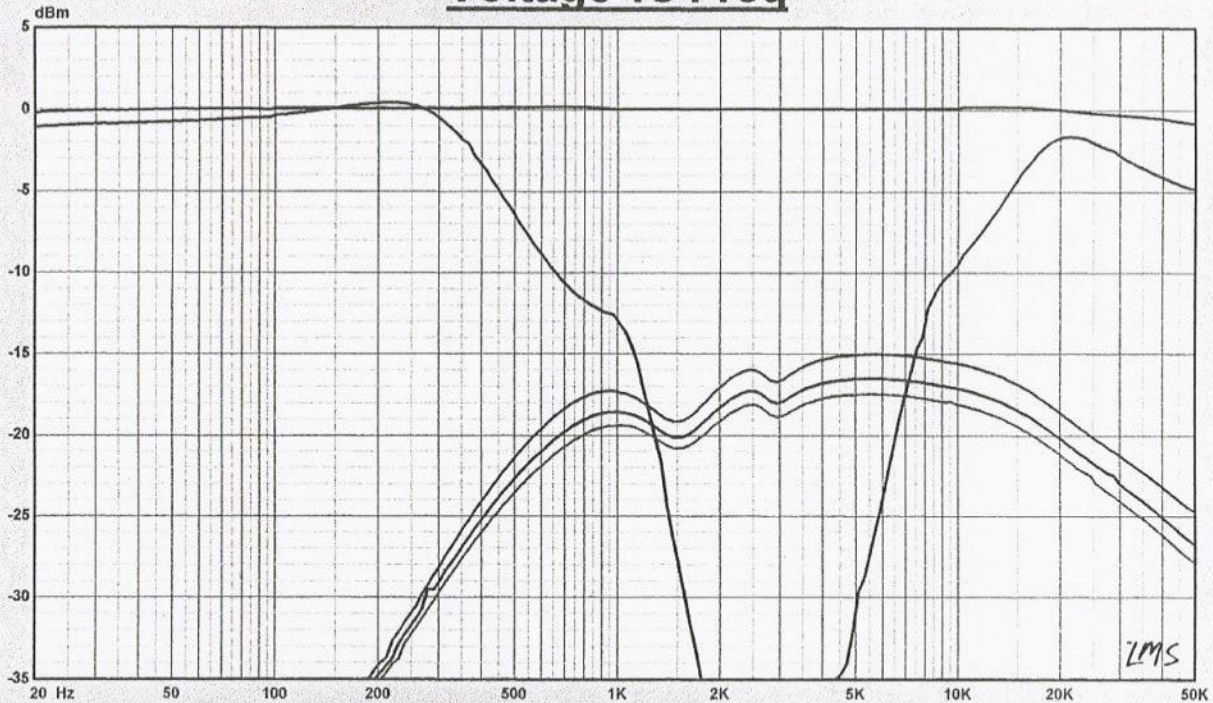
May 13, 2002
Mon 1:09 pm

LINEAR X
S Y S T E M S

K2.S5800



Voltage vs Freq



- | | | |
|-----|-------------------------------|-------------------------|
| Map | 1: REF | 22: HF, 0 dB |
| | 20: LF, Elytone, Rev.4 | 23: HF, -1 dB |
| | 21: HF, Elytone, Rev.4, +1 dB | 24: UHF, Elytone, Rev.4 |

Notes

Data Measured: Feb 26, 2002 Tue. 1:47 pm

Data Measured: Apr 15, 2002 Mon. 2:21 pm

LMS 4.3.0.281
Jan/16/2001

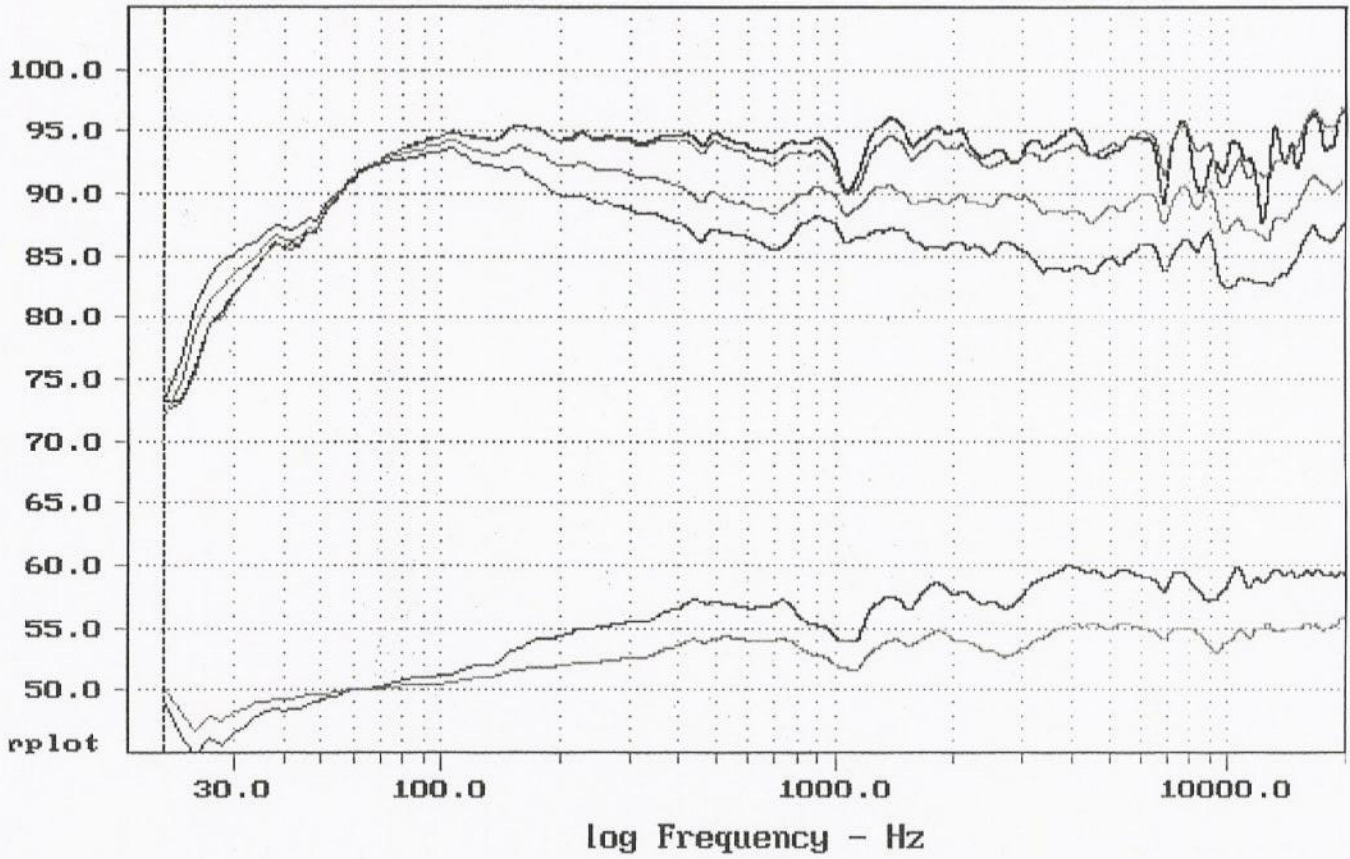
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Company:

Project:
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May 13, 2002
Mon 1:08 pm

LINEAR X
S Y S T E M S

K2.S5800



rplot

On Axis, Direct, 1st Reflections, Soundpower, DI_SND, DI_1ST

K2.S5800

S5800
Simplified Schematic
339362

5/8/02
Rev. 4
G.T.

