



Engineering Standard

Date Effective

Number

2/13/2004

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Engineering Design  
Specification

Date Revised

Rev Number

2/13/2004

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**S1S-EX -- Synthesis 18 inch Vented Subwoofer**

**Acoustical and Electrical Specifications**

**System:**

<i>Sensitivity:</i>	Approximately 97dB at 50Hz
<i>Rated Impedance:</i>	8ohm at speaker inputs
<i>Minimum Impedance:</i>	6 Ohms at 25Hz
<i>Impedance Curve:</i>	See attachment
<i>Operational Bandwidth</i>	20 Hz to 200 Hz
<i>Frequency Response:</i>	See attachment - Rising response 20Hz to 200Hz
<i>f3 (-6 dB ref 50Hz):</i>	28.8Hz (Port tuning at 25Hz)
<i>Harmonic Distortion:</i>	See attachment
<i>Power Compression:</i>	N/A
<i>Crossover Frequencies:</i>	Passive System. Use crossover between 20Hz and 200Hz
<i>System Polarity:</i>	E.I.A.

**System Component Specifications**

**Driver(s)**

	<b>Size</b>	<b>Supplier</b>	<b>Model #</b>	<b>Specification</b>
<i>Sub Bass Transducer:</i>	18"	JBL Pro	2242HPL	P/N 75812-03

**Network:**

*Plastic terminal cup with Gold plated, 5-way Binding posts, including pre-soldered attached 14 - 12awg woofer cable. No other network components used.*

**Amplifier:**

*Outboard amplification required.*