

## Section 6. - LSR32 SPECIFICATIONS

### System:

Input Impedance (nominal):	4 ohm
Anechoic Sensitivity: <sup>1</sup>	93 dB/2.83V/1m (90 dB/1W/1m)
Frequency Response (60 Hz - 22 kHz): <sup>2</sup>	+1, -1.5
Low Frequency Extension <sup>2</sup>	
-3 dB:	54 Hz
-10 dB:	35 Hz
Enclosure resonance frequency:	28 Hz
Long Term Maximum Power (IEC 265-5):	200 W Continuous; 800 W Peak
Recommended Amplifier Power:	150 W - 1000 W (rating into 4 ohm load)
HF Frequency Control (2.5 kHz - 20 kHz):	0 dB, -1 dB
Distortion, 96 dB SPL, 1m: <sup>3</sup>	
Low Frequency (below 120 Hz):	
2nd harmonic:	< 1.5%
3rd harmonic:	< 1 %
Mid & High Frequency (120 Hz - 20 kHz):	
2nd harmonic:	< 0.5%
3rd harmonic:	< 0.4%
Distortion, 102 dB SPL, 1m: <sup>3</sup>	
Low Frequency (below 120 Hz):	
2nd harmonic:	< 1.5%
3rd harmonic:	< 1%
Mid & High Frequency (80 Hz - 20 kHz):	
2nd harmonic:	< 1 %
3rd harmonic:	< 1 % (N.B.: < 0.4%, 250 Hz - 20 kHz)
Power Non-Linearity (20 Hz - 20 kHz):	
30 watts:	< 0.4 dB
100 watts:	< 1.0 dB
Crossover: Frequencies	250 Hz and 2.2 kHz

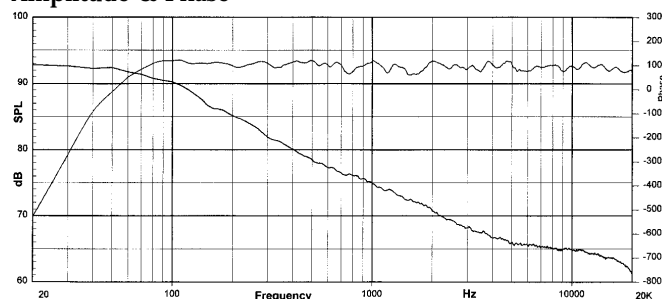
### Transducers:

Low Frequency Model:	252G
Diameter:	300 mm (12 in.)
Voice Coil:	50 mm (2 in.) Differential Drive with Dynamic Braking Coil
Magnet Type:	Neodymium
Cone Type:	Carbon Fiber Composite
Impedance:	4 ohm
Mid Frequency Model:	C500G
Diameter:	125 mm (5 in.)
Voice Coil:	50 mm (2 in.) Aluminum Edge Wound
Magnet Type:	Neodymium
Cone Type:	Kevlar™ Composite
Impedance:	4 ohm
High Frequency Model:	053ti
Diameter:	25 mm (1 in.) diaphragm
Voice Coil:	25 mm (1 in.)
Magnet Type:	Ceramic 5
Diaphragm Type:	Damped Titanium Composite
Other Features:	Elliptical Oblate Spheroidal Waveguide
Impedance:	4 ohm

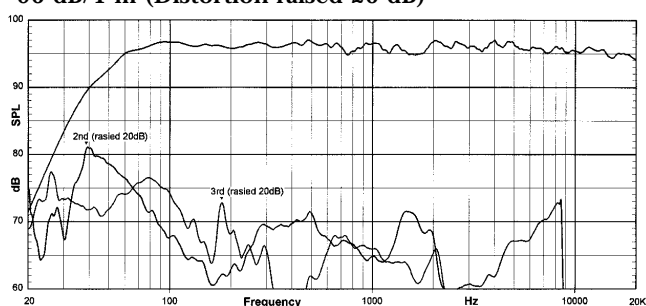
### Physical:

Finish:	Black, Low-Gloss, "Sand Texture"
Enclosure Volume (net):	50 liter (1.8 cu. ft.)
Input Connectors:	Two pair of 5-way binding posts.
Net Weight:	21.3 kg (47 lbs)
Dimensions (WxHxD):	63.5 x 39.4 x 29.2 cm (25.0 x 15.5 x 11.5 in.)

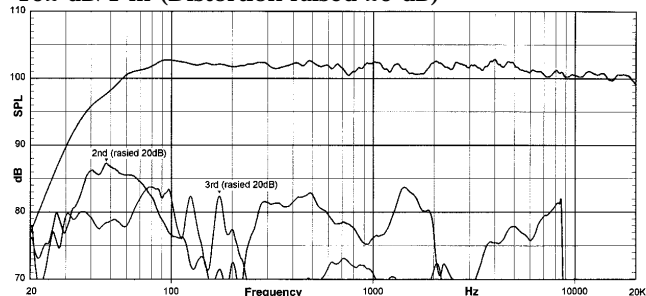
### Amplitude & Phase



### 96 dB/1 m (Distortion raised 20 dB)



### 102 dB/1 m (Distortion raised 20 dB)



### Notes:

All measurements unless otherwise stated made anechoically at 2 meters and referenced to 1 meter by the inverse square law.

The reference measurement microphone position is located perpendicular to the centerline of the mid and high frequency transducers, at the point 55 mm (2.2 in.) below the center of the tweeter diaphragm.

<sup>1</sup>Mean SPL level from 100 Hz to 20 kHz.

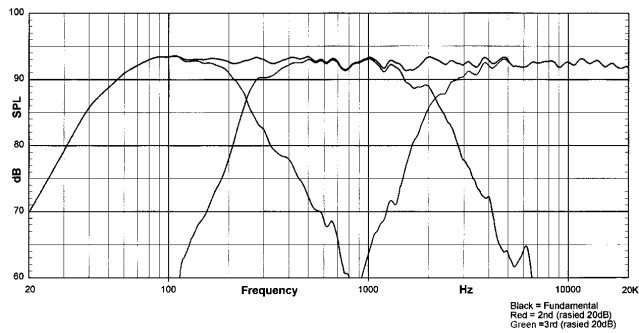
<sup>2</sup>Describes Anechoic (4π) low frequency response. Acoustic Loading provided by the listening room will increase low frequency bass extension.

<sup>3</sup>Distortion measurements performed with the input voltage necessary to produce the stated "A" weighted SPL level at the stated measurement distance. Distortion figures refer to the maximum distortion measured in any 1/10th octave wide band in the stated frequency range.

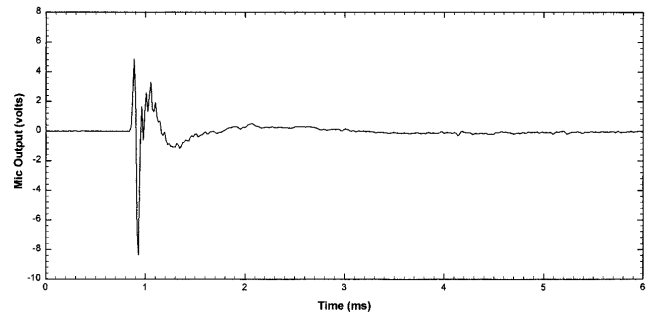
<sup>4</sup>Power Non-Linearity figures based on the "A" weighted deviation from linear increase in SPL with linear increase in input power (ie: power compression) measured after 3 minutes of continuous pink noise excitation at the stated power level.

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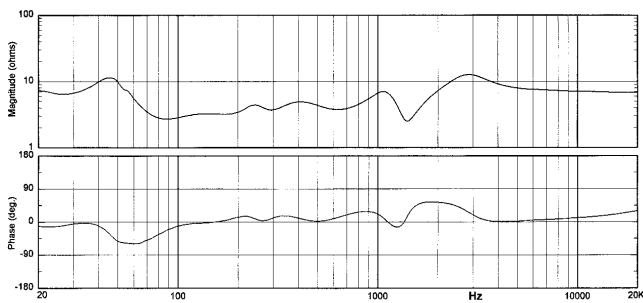
## Acoustic Contribution



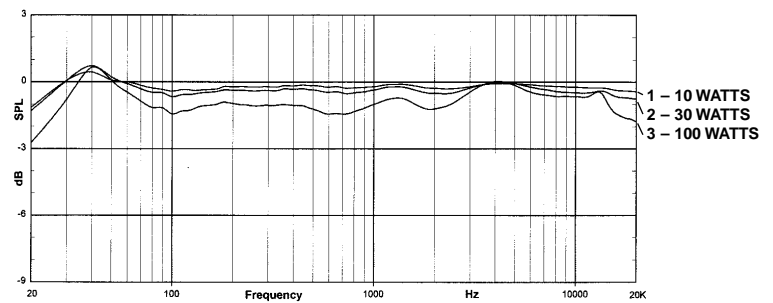
## Impulse Response



## System Impedance



## Power Compression



## LSR32 Response Curves

