



JBL Engineering Standard
Engineering Design
Specification

Number 1925
Date Effective 1/25/05
Page 1 of 5

Model: 2269H

Description: 18" Pro Super Sub with 4" DD motor

Voice Coil Diameter: 4
Type: DD - dual coil
Material: Alum Ribbon .045 x 0.0155
Wind length: 1.85" x 2
Wind spacing: 0.40
DCR: 4.80
Turns: 114 X 2
Axial position in gap: Centered

Magnet Flux: 392,000 lines in ea. 0.70" thk top plate (x2 for both gaps)
1,030,000 total lines intercepted by voice coil

Minimum Impedance: 6.0 Ohms @ 120 Hz
Polarity: Positive voltage to RED terminal gives forward cone motion

Power Test per AES 2-1984 (r2002) except extended duration

Voltage: 84.9 VTRMS
Spectrum 30-300 Hz pink noise
Crest Factor 6 dB
Qualification duration 100 Hours
Audit duration 2 Hours
Reference power 1200 watts into Zmin
Environment Free Air
Rtg 0.19 Deg C/Watt
Rtm 0.09 Deg C/Watt
Rttl 0.28 Deg C/Watt

File= UBER27

Dimensions Depth 12 1/2 Inches
Weight: 21 lbs

REVISIONS

LTR	DESCRIPTION	DATE	APPR
A	INITIAL RELEASE	1/25/2005	REH

Design Engineer

Ralph Hyde



Model 2269H

Theile - Small Parameters (Clio)

Before break in After 1 hr, 20 Hz, 55V

Re:	---	5.3	Ohms
Fs:	---	28	Hertz
Qts:	---	0.36	
Qms:	---	4.8	
Qes:	---	0.39	
Vas:	---	237	Liters
Ref Eff:	---	1.2	
Sd:	---	1225	Sq Meters
Mms:	---	294	Gms
BL:	---	26.4	T*M
Le @ 1KHz:	---	2.5	mH
Xmax @ 10%			
THD:	---	19	mm
Motional Impedance:	---	---	Ohms

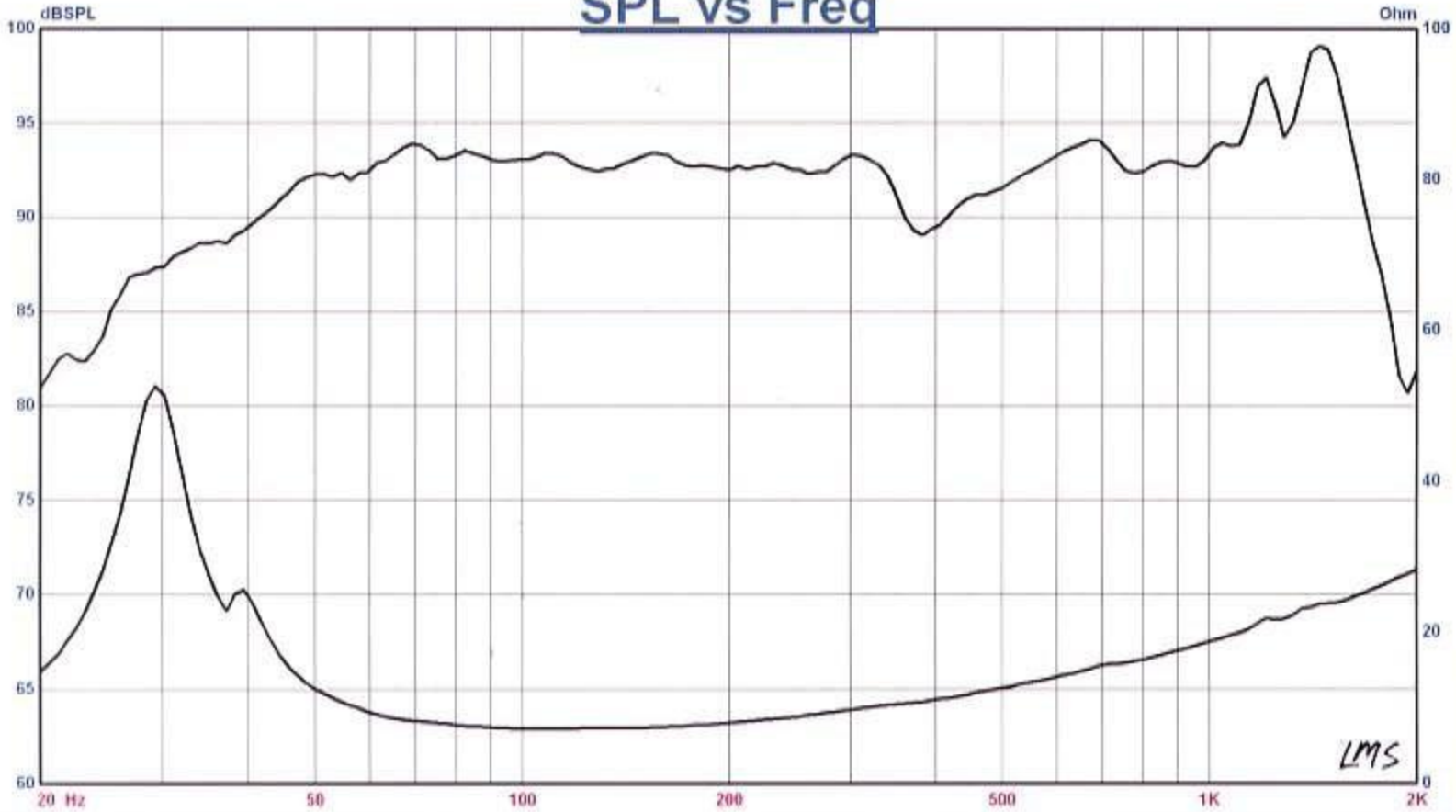
Proposed Frequency Response Window		
(Hz)	+/- dB	Octaves
40-300	1	1/3



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Page 3 of 5

SPL vs Freq



Map

— 96; Import; 2269 #51 processed

Notes

LMS

4.5.0.342
May/19/2004

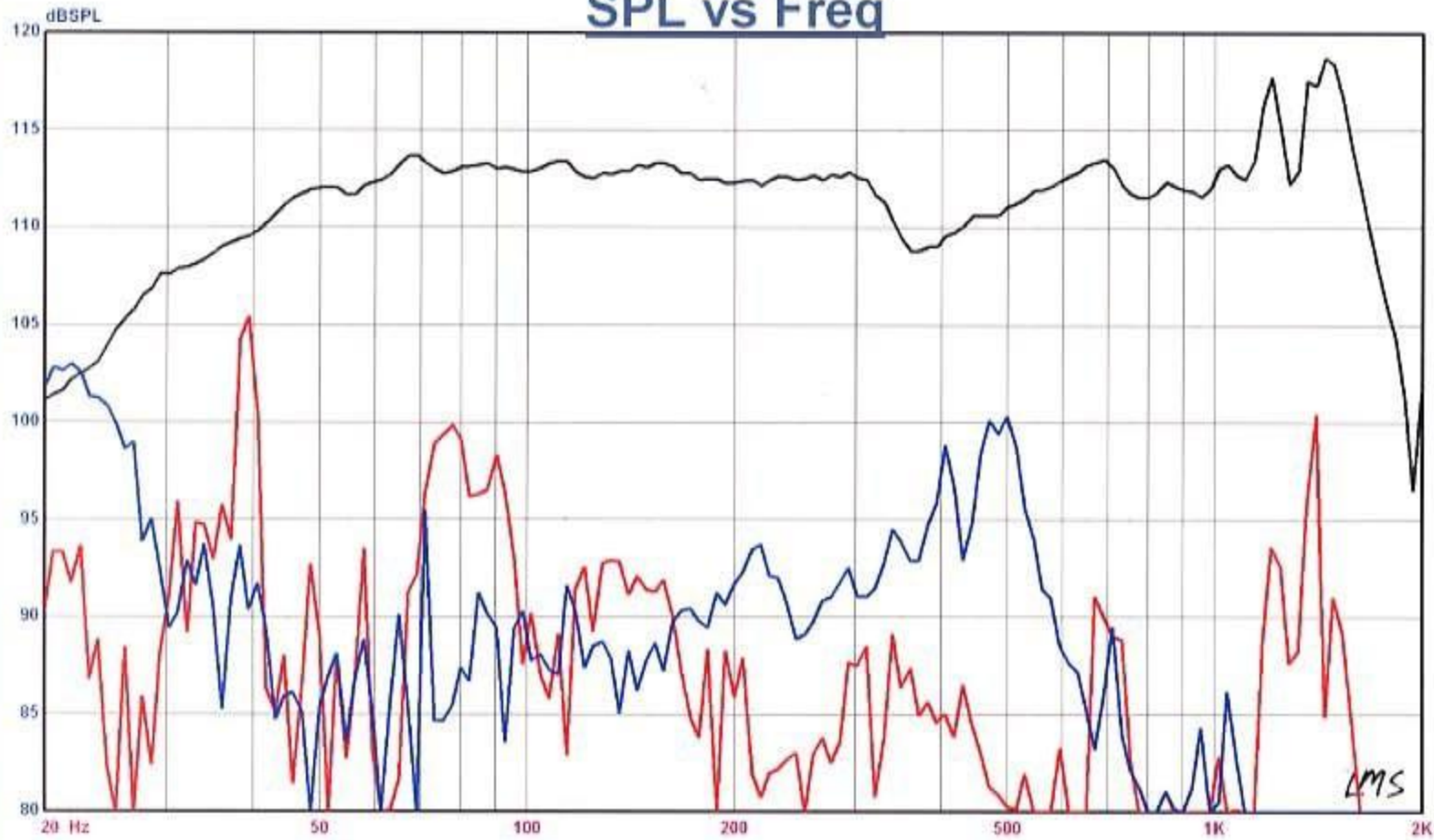
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Company:

Project:
File: 2269 44- on.lib

Dec 9, 2004
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LINEAR X
S Y S T E M S

SPL vs Freq

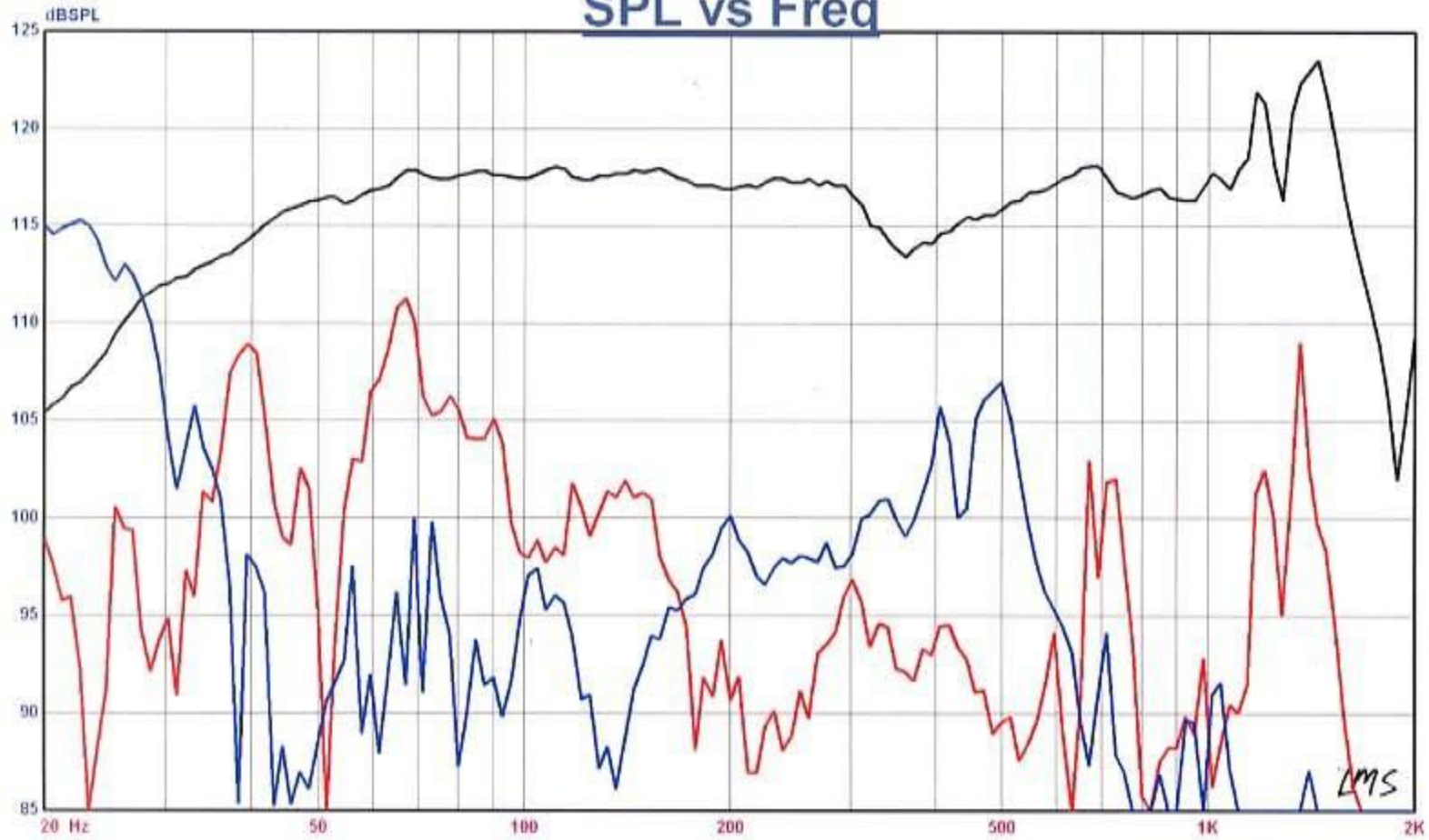


Map

- 84: Import: 2269H #51 28.3V Fund 2.83, 28.3v, 849 V 20
- 85: Import: 2269H #51 2nd+20dB 2.83, 28.3v, 849 V 20-2
- 86: Import: 2269H #51 3rd+20dB 2.83, 28.3v, 849 V 20-2

Notes

SPL vs Freq



- Map
- 87: 2269H #51 49V Fund 2.83, 28.3v, & 49 V 20-2
 - 88: 2269H #51 2nd+20 @49V 2.83, 28.3v, & 49 V 2
 - 89: 2269H #51 3rd+20@49V 2.83, 28.3v, & 49 V 20

Notes

LMS 4.5.0.342
May/19/2004

Person:
Company:

Project:
File: 2269 44- on.lib

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