

Model		L15S800		
<b>Typical characteristic</b>				
Nominal Diameter		380	mm	15 Inch
Rated Impedance		8	$\Omega$	
Power handling capacity <sup>(1)</sup>		500	Watts	
Sensitivity 1W, 1m <sup>(2)</sup>		97.5	dB	
Frequency Range <sup>(3)</sup>		54-4600	Hz	
Power Compression <sup>(4)</sup>				
	@ -10dB power	/	dB	
	@ -3dB power	/	dB	
	@ rated power	/	dB	
Distortion <sup>(5)</sup>	2nd harmonic	2.7	%	
	3rd harmonic	0.7	%	
Effective Piston Diameter		330	mm	13.0 Inch
Maximum Excursion Before Damage (peak to peak)		40.8	mm	1.6 Inch
Minimum Impedance		8.3 @ 200 Hz	$\Omega$	
Voice Coil Diameter		100	mm	3.9 Inch
Voice Coil Material		Copper		
Voice Coil Winding Depth		16	mm	0.6 Inch
Number of layers		2		
Kind of layer		round - outside		
Electrical polarity	A positive voltage applied on the red terminal produces forward cone motion.			
Thickness Top Plate Depth		10	mm	0.4 Inch
BL Factor	<b>BL</b>	24.6	T x m	
Effective Moving Mass	<b>M<sub>ms</sub></b>	96	gr	
<b>Thiele - Small Parameters <sup>(6)</sup></b>				
Resonance frequency	<b>F<sub>s</sub></b>	45	Hz	
DC resistance	<b>R<sub>e</sub></b>	6.5	$\Omega$	
Mechanical factor	<b>Q<sub>ms</sub></b>	5.5		
Electrical factor	<b>Q<sub>es</sub></b>	0.30		
Total factor	<b>Q<sub>ts</sub></b>	0.28		
Equivalent C <sub>as</sub> air load	<b>V<sub>as</sub></b>	137	liter	
Effective piston area	<b>S<sub>d</sub></b>	0.085	m <sup>2</sup>	
Max. linear excursion <sup>(7)</sup>	<b>X<sub>max</sub></b>	5.5	mm	
Linear displacement volume	<b>V<sub>d</sub></b>	470.2	cm <sup>3</sup>	
Voice - coil inductance @ 1KHz	<b>Le<sub>1K</sub></b>	2.20	mH	
Half-space efficiency	<b>Eff</b>	4.1	%	
<b>Mounting Information</b>				
Overall Diameter		387	mm	15.2 Inch
Bolt Circle Diameter		371	mm	14.6 Inch
Bolt Hole Diameter		6.5	mm	0.3 Inch
<b>Baffle Cutout Diameter</b>				
Front Mount		352	mm	13.9 Inch
Rear Mount		356	mm	14.0 Inch
Depth		162	mm	6.4 Inch
Volume Displaced by Driver		5.5	liter	
Net Weight		12.0	Kg	
Shipping Weight		12.8	Kg	

<sup>1</sup> AES standard (50 - 500) Hz.

<sup>2</sup> Sensitivity is based on a 100-1000Hz pink noise signal for an input 2.83V @ 8 Ohms.

<sup>3</sup> Frequency range is defined as the frequency extremes over which the response is -10dB relative to rated sensitivity.

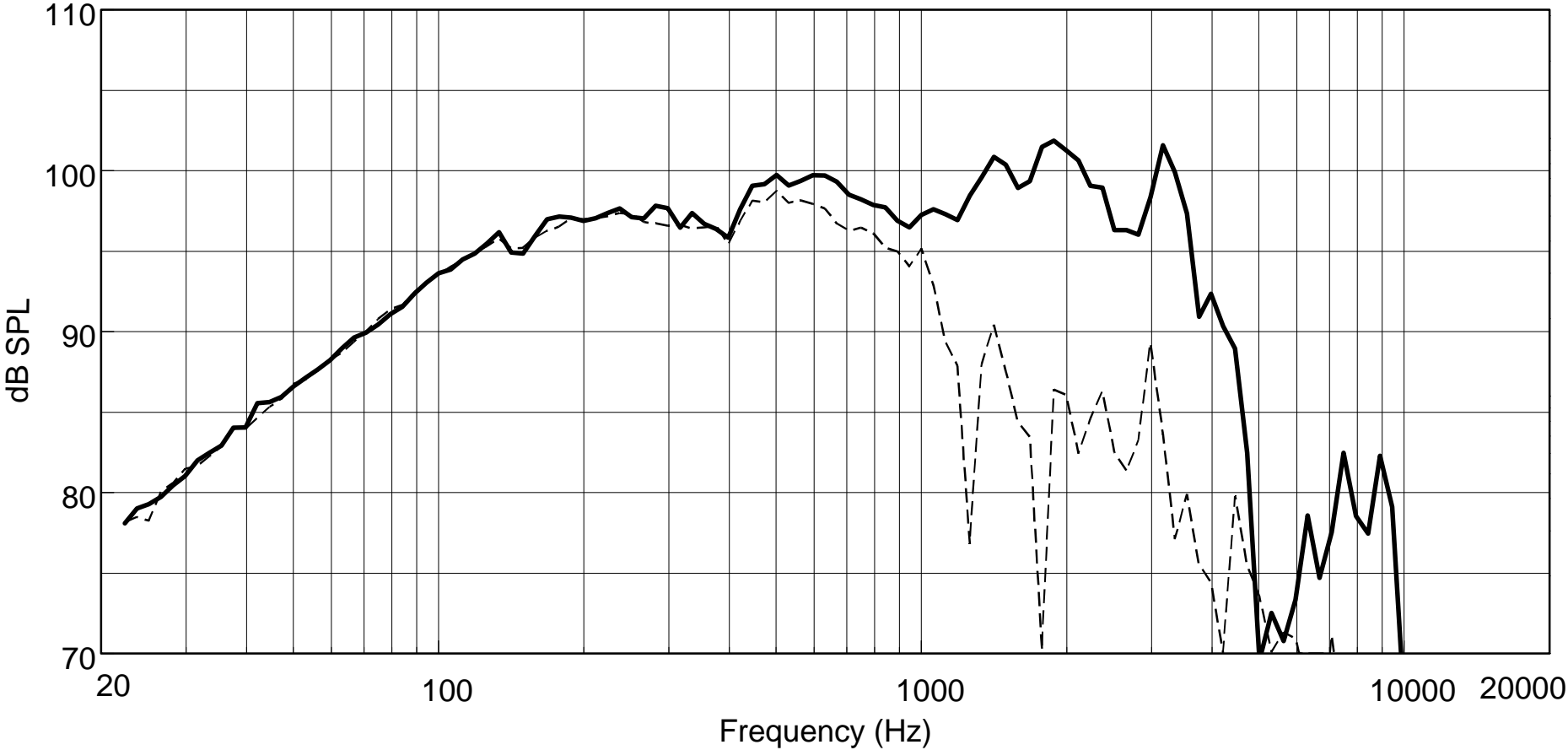
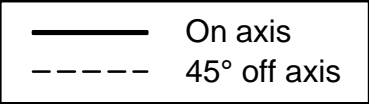
<sup>4</sup> Power compression is the sensitivity loss at the specified power, measured from 50-500Hz, after a 5 minute AES standard pink noise preconditioning test at the specified power.

<sup>5</sup> Distorsion is measured at -10dB rating power, from 100 to 500 Hz.

<sup>6</sup> Thiele-Small parameter are measured after 2 hour exercise period using at the power handling capacity.

<sup>7</sup> Mathematical X<sub>max</sub>

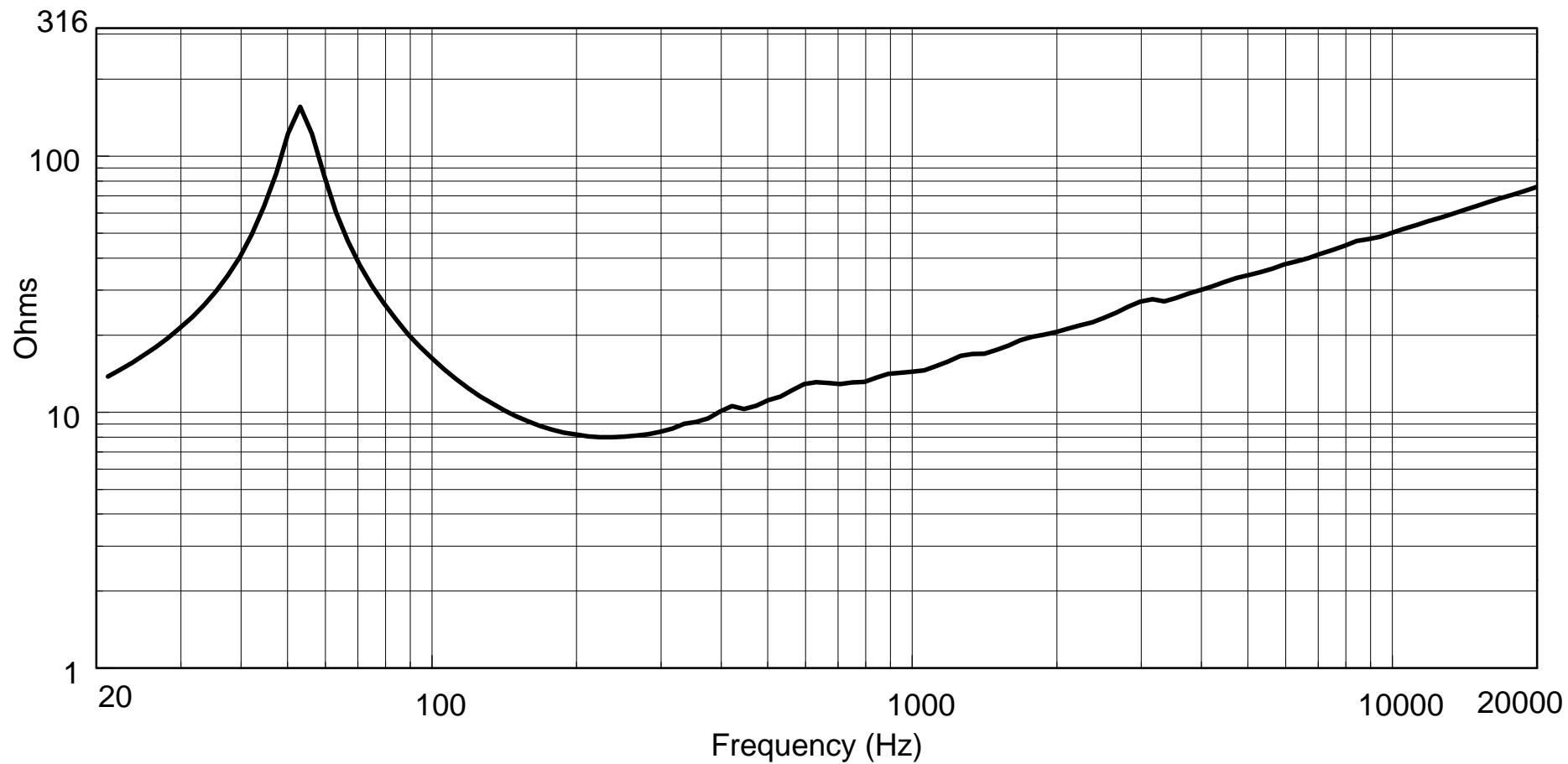
Response (1W/1m)



L15S800



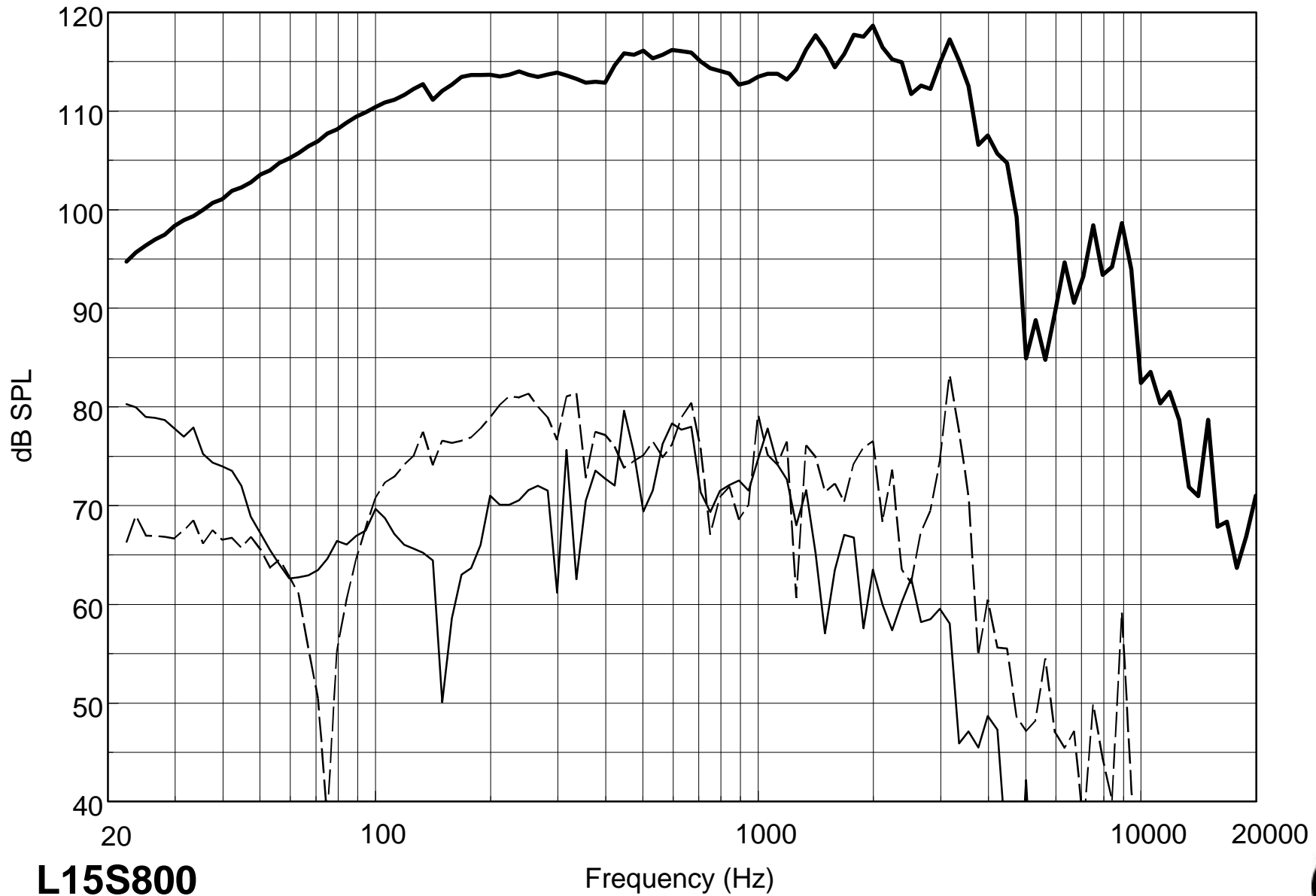
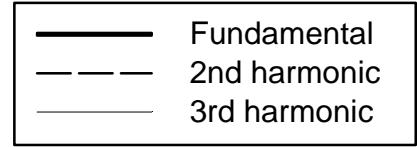
# Impedance



**L15S800**



# RESPONSE at -10 dB Pmax (50 W, 8 Ω)



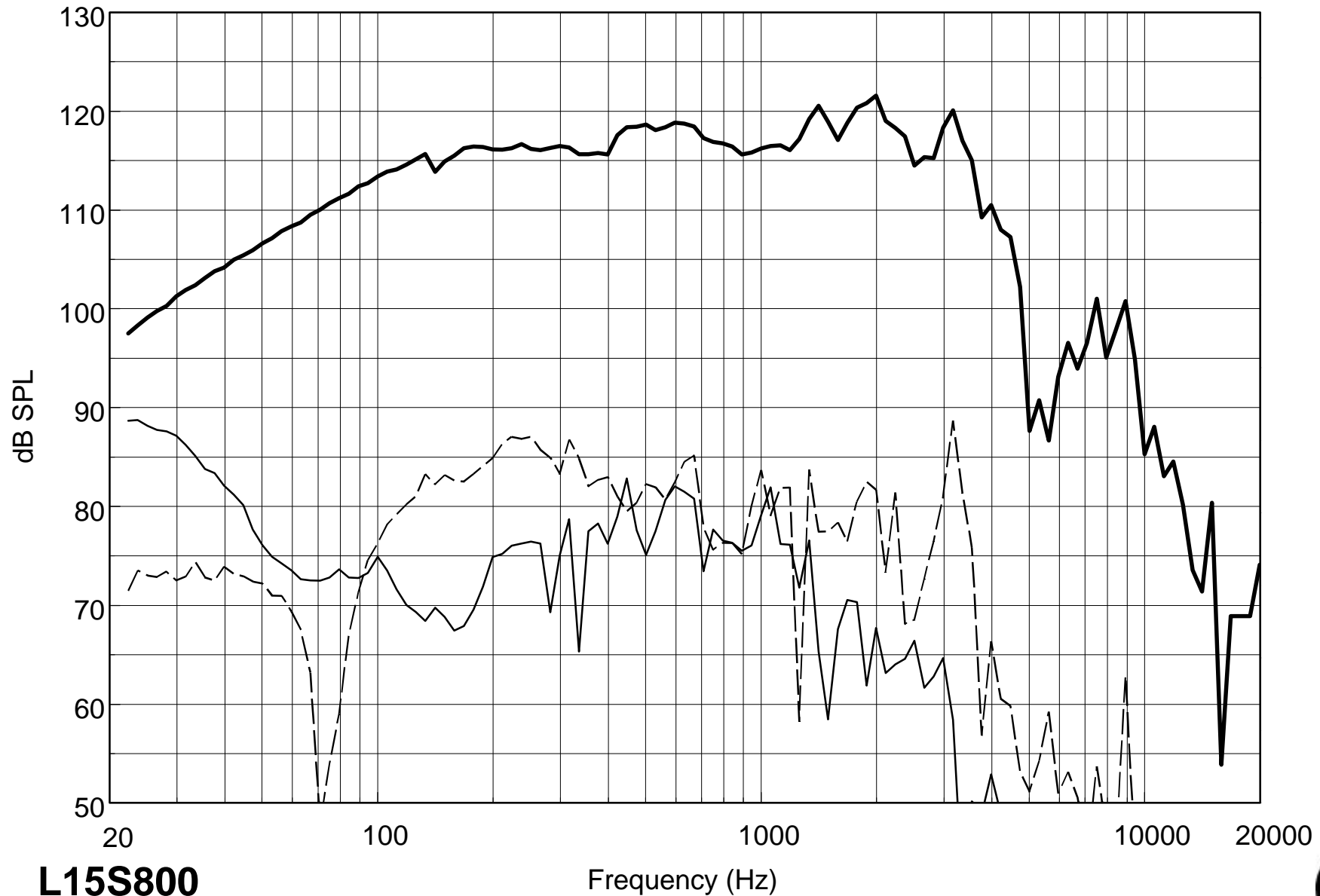
**L15S800**



UNIVERSITY MICROFILMS INTL.

# RESPONSE and distortion at 115 dB (28.5 Vrms)

- Fundamental
- - - 2nd harmonic
- 3rd harmonic

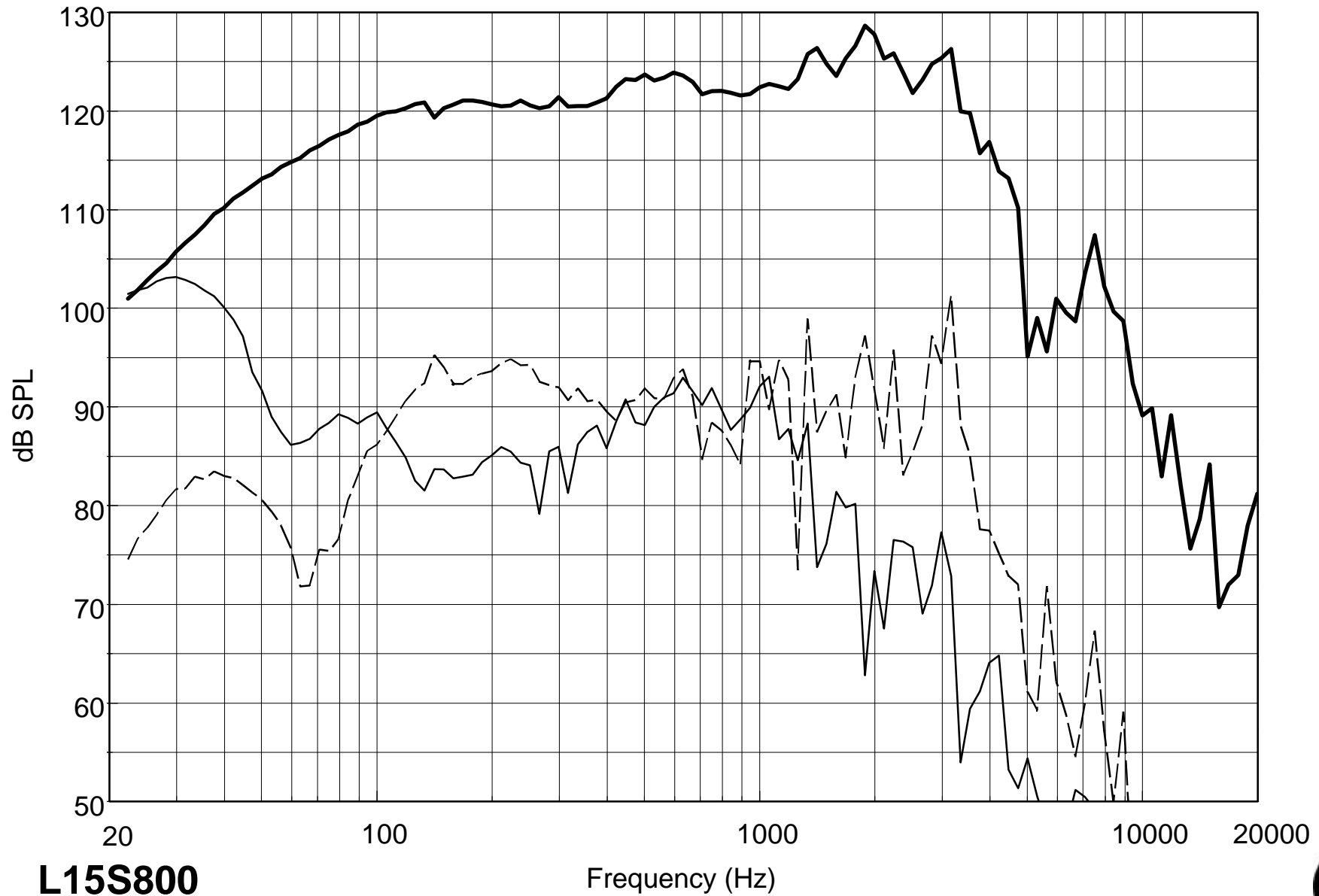
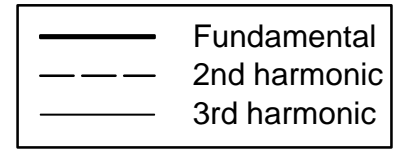


**L15S800**



UNIVERSITY MICROFILMS  
SERIALS ACQUISITION  
300 N ZEEB RD  
ANN ARBOR MI 48106-1500

# RESPONSE and distortion at Pmax (63.2 Vrms)



**L15S800**



UNIVERSITY MICROFILMS INTL.