Model		L12P520			
Typical characteristic					
Nominal Diameter		300	mm	12	Inch
Rated Impedance		8	Ω		
Power handling capacity [1]		300	Watts		
Sensitivity 1W, 1m [2]		98	dB		
Frequency Range [3]		50-5000	Hz		
Power Compression [4]					
@ -10dB power		/	dB		
@ - 3dB power		/	dB		
@ rated power		/	dB		
Distortion [5] 2nd harmonic		1.7	%		
3nd harmonic		0.6	%		
Effective Piston Diameter		260	mm	10.2	Inch
Maximum Excursion Before Damage (peak to peak)		29	mm	1.1	Inch
Minimum Impedance		6.2 @ 250 Hz	Ω		
Voice Coil Diameter		76	mm	3.0	Inch
Voice Coil Material		Copper clad alluminum wire			
Voice Coil Winding Depth		15	mm	0.6	Inch
Number of layers		1			
Kind of layer		flat - outside			
Electrical polarity	A positive voltage applied on the red terminal produces forward cone motion.				
Thickness Top Plate Depth			mm	0.0	Inch
BL Factor	**BL**	15.3	T x m		
Effective Moving Mass	**M_{ms}**	42	gr		
Thiele - Small Parameters [6]					
Resonance frequency	**F_s**	58	Hz		
DC resistance	**R_e**	5.0	Ω		
Mechanical factor	**Q_{ms}**	3.9			
Electrical factor	**Q_{es}**	0.33			
Total factor	**Q_{ts}**	0.30			
Equivalent C_{as} air load	**V_{as}**	71	liter		
Effettive piston area	**S_d**	0.053	m^2		
Max. linear excursion [7]	**X_{max}**	5.5	mm		
Linear displacement volume	**V_d**	291.9	cm^3		
Voice - coil inductance @ 1KHz	**Le_{1K}**	1.27	mH		
Half-space efficiency	**Eff**	4.0	%		
Mounting Information					
Overall Diameter		320	mm	12.6	Inch
Bolt Circle Diameter		300	mm	11.8	Inch
Bolt Hole Diameter		7	mm	0.3	Inch
Baffle Cutout Diameter					
Front Mount		286	mm	11.3	Inch
Rear Mount		280	mm	11.0	Inch
Depth		155	mm	6.1	Inch
Volume Displaced by Driver		2.6	liter		
Net Weight		8.4	Kg		
Shipping Weight		9.2	Kg		

1 AES standard (60-600) Hz.

2 Sensitivity is based on a 100-1000Hz pink noise signal for an in put 2.83V @ 8 Ohms.

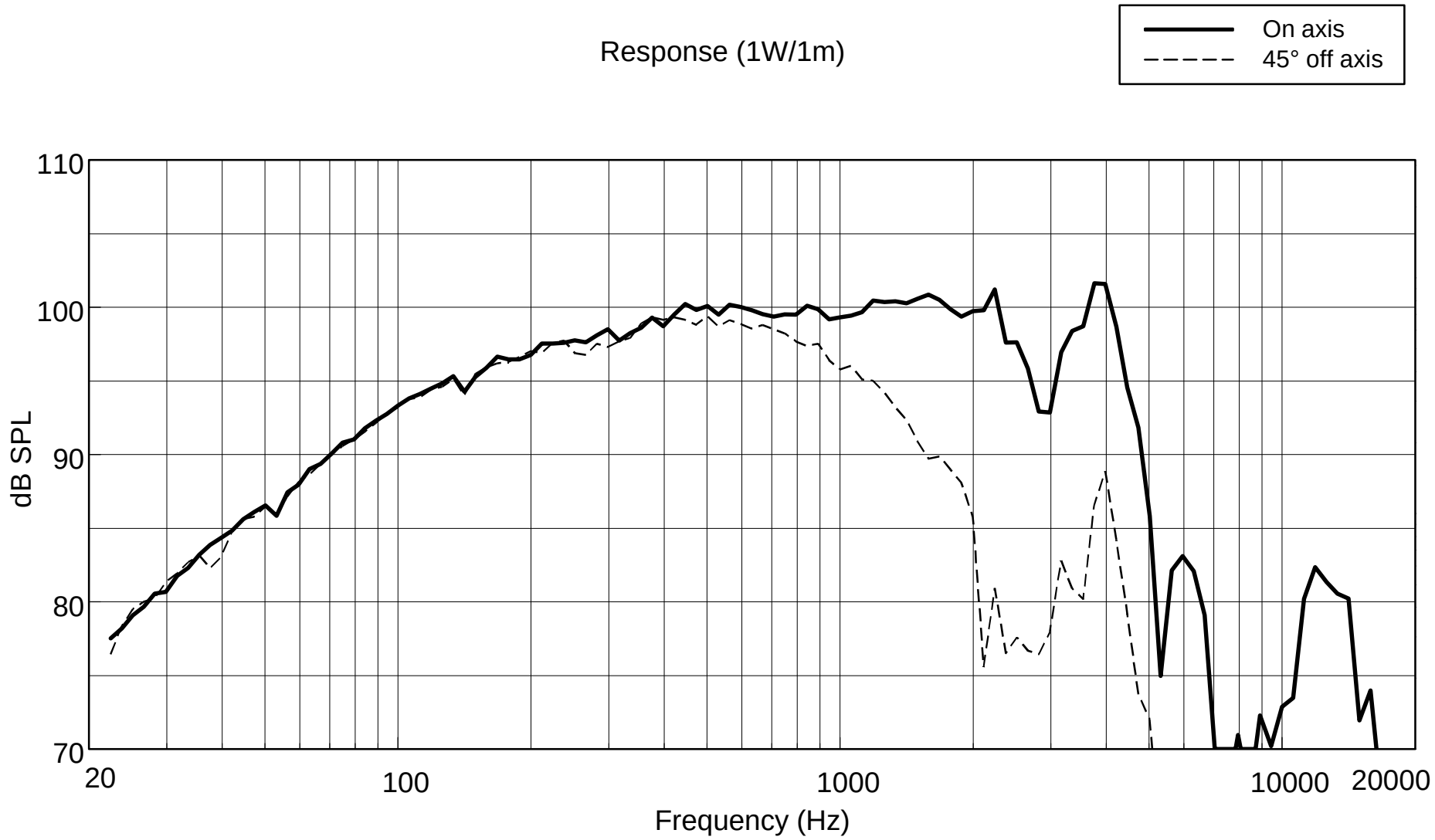
3 Frequency range is defined as the frequency extremes over which the response is -10dB relative to rated sensitivity.

4 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.

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

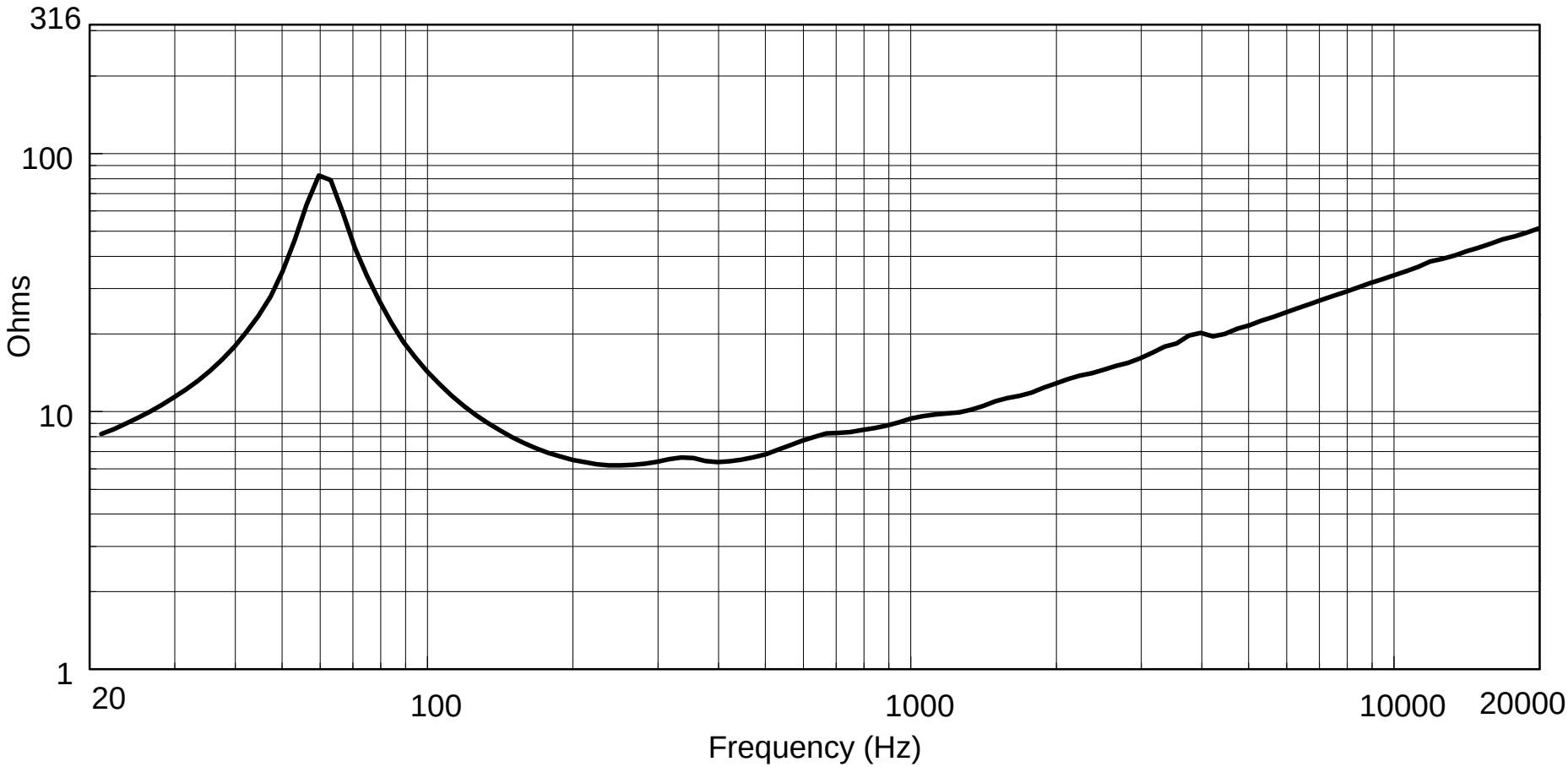
6 Thiele-Small parameter are measured after 2 hour exercise period using at the power handling capacity.

7 Mathematical Xmax


Response (1W/1m)
On axis
45° off axis
110
100
90
80
70
dB SPL
20
100
1000
10000
20000
Frequency (Hz)

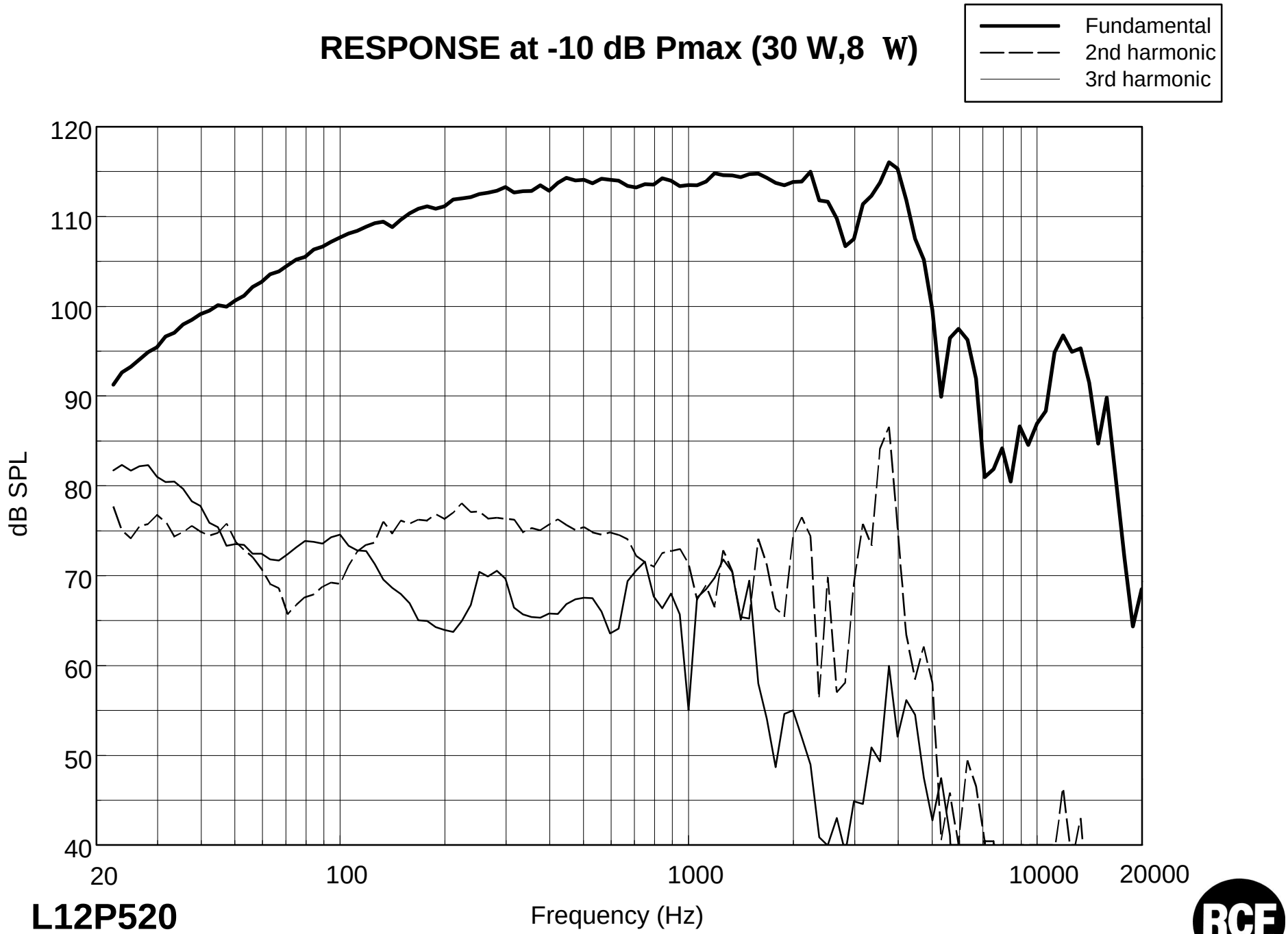
L12P520

Impedance



L12P520

RESPONSE at -10 dB Pmax (30 W,8 W)



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