



SARL Son Lumière Concept
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W30Nd

WOOFER • 30cm / 12" • Neodym

	Natural convection air cooling system			Forced air cooling system		
Speaker type	W384-8			W384-8		
Reference	4300Nd <i>Bass Extension</i>			4400Nd <i>Bass Extension</i>		

TYPICAL CHARACTERISTICS

	Z	Ω	8	8
Rated impedance	-	dB SPL	95	95
Half space sensitivity (1W@1m)	-	Hz	30-1500	30-1500
Usable freq. range	-	W	500	600
Power handling capacity (AES)	SPLmax	dB SPL	119	121
Max Sound Pressure Level	Zmin	Ω @Hz	6,5@230	6,6@290
Voice-coil inductance @ 1kHz	Le _{1k}	mH	1,45	1,24
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0,64	0,58
BL product	BL	N/A	22,4	22,4
Moving mass	Mms	kg	0,084	0,084

THIELE-SMALL PARAMETERS: TYPICAL (QC LIMITS)

	Fs	Hz	41(±5)	41(±5)
Resonance frequency	Re	Ω	5,4(±0,5)	5,4(±0,5)
DC Resistance	Qms	1	3,2	2,2
Mechanical quality factor	Qes	1	0,24	0,24
Electrical quality factor	Qts	1	0,23	0,22
Total quality factor	Cms	10 ⁻⁶ .m/N	180	180
Mechanical suspension compliance	Sd	m ²	0,053	0,053
Effective piston area	Vas	m ³	0,070	0,070
Equivalent Cas air load	Xmax	±mm	8,0	8,0
Max linear excursion	Vd	10 ⁻³ .m ³	0,424	0,424
Linear displacement volume	η_0	%	2,0	2,0
Reference efficiency	Vas.Qts ²	10 ⁻³ .m ³	3,3	3,2
Unity load volume				

ABSOLUTE MAXIMUM RATINGS

	Vmax	V	125	140
Short term max. input voltage	Xdam	±mm	17	17
Max excursion before damage	Ta	°C	-10 to +50	-10 to +50
Ambient operating temperature	-	°C	-20 to +70	-20 to +70
Storage temperature	-	-	Outdoor ✚	Outdoor ✚
Environmental withstanding *				

APPLICATION INFORMATION

	-	10 ⁻³ .m ³	2,2	2,2
Air volume occupied by the driver		kg	6,8	6,8
Speaker net mass	Vb/Fb	Lts/Hz	40L / 37Hz	40L / 37Hz
Recommended reflex box				

* Our products are classified in three categories : **Indoor**, **Outdoor**, and **Outdoor ✚** for permanent outdoor use or severe conditions.

upgrade : 21/02/2007

These specifications are representative of current production after packaging. Because of our continuous research they are subject to change without notice.