



SARL Son Lumière Concept
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W38Nd

WOOFER • 38cm / 15" • Neodym

	Natural convection air cooling system			Forced air cooling system		
Speaker type	W384-8	W384-8	W384-8	W384-8	W384-8	W384-8
Reference	6201Nd <i>Bass Extension</i>	6211Nd <i>High SPL</i>	6221Nd <i>Bass Extension High SPL</i>	6301Nd <i>Bass Extension</i>	6311Nd <i>High SPL</i>	6321Nd <i>Bass Extension High SPL</i>

TYPICAL CHARACTERISTICS

	Z	Ω	8	8	8	8	8	8
Rated impedance	-	dB SPL	96	98	97	96	98	97
Half space sensitivity (1W@1m)	-	Hz	30-1000	30-1000	30-1000	30-1000	30-1000	30-1000
Usable freq. range	-	W	1000	1000	1100	1200	1200	1300
Power handling capacity (AES)	-	dB SPL	123	125	124	125	127	126
Max Sound Pressure Level	SPLmax	Ω @Hz	6,2@210	6,5@210	6,2@210	6,3@190	6,3@260	6,3@260
	Zmin	mH	1,68	2,26	2,03	1,46	1,89	1,69
Voice-coil inductance @ 1kHz	Le _{1k}	mH	0,74	0,90	0,92	0,63	0,87	0,73
Voice-coil inductance @ 10kHz	Le _{10k}	N/A	24,7	31,0	28,0	24,7	31,0	28,0
BL product	BL	kg	0,145	0,147	0,157	0,145	0,147	0,157
Moving mass	Mms							

THIELE-SMALL PARAMETERS: TYPICAL (QC LIMITS)

	Fs	Hz	35(±5)	35(±5)	34(±5)	35(±5)	35(±5)	34(±5)
Resonance frequency	Re	Ω	5,3(±0,5)	5,5(±0,6)	5,2(±0,5)	5,3(±0,5)	5,5(±0,6)	5,2(±0,5)
DC Resistance	Qms	1	4,9	4,9	5,2	3,2	3,2	3,6
Mechanical quality factor	Qes	1	0,28	0,19	0,22	0,28	0,19	0,22
Electrical quality factor	Qts	1	0,26	0,18	0,21	0,26	0,18	0,21
Total quality factor	Cms	10 ⁻⁶ .m/N	140	140	140	140	140	140
Mechanical suspension compliance	Sd	m ²	0,0871	0,0871	0,0871	0,0871	0,0871	0,0871
Effective piston area	Vas	m ³	0,150	0,150	0,150	0,150	0,150	0,150
Equivalent Cas air load	Xmax	±mm	10,0	8,0	9,5	10,0	8,0	9,5
Max linear excursion	Vd	10 ⁻³ .m ³	0,871	0,697	0,827	0,871	0,697	0,827
Linear displacement volume	η_0	%	2,3	3,3	2,5	2,3	3,7	2,5
Reference efficiency	Vas.Qts ²	10 ⁻³ .m ³	10,4	4,8	6,7	9,8	4,4	6,5
Unity load volume								

ABSOLUTE MAXIMUM RATINGS

	Vmax	V	160	160	175	175	175	180
Short term max. input voltage	Xdam	±mm	19	19	19	19	19	19
Max excursion before damage	Ta	°C	-10 to +50	-10 to +50	-10 to +50	-10 to +50	-10 to +50	-10 to +50
Ambient operating temperature	-	°C	-20 to +70	-20 to +70	-20 to +70	-20 to +70	-20 to +70	-20 to +70
Storage temperature	-	-	Outdoor ✚	Outdoor ✚	Outdoor ✚	Outdoor ✚	Outdoor ✚	Outdoor ✚
Environmental withstanding *								

APPLICATION INFORMATION

	-	10 ⁻³ .m ³	4,2	4,2	4,2	4,2	4,2	4,2
Air volume occupied by the driver		kg	7,4	7,4	7,4	7,4	7,4	7,4
Speaker net mass	Vb/Fb	Lts/Hz	100L / 35Hz	75L / 38Hz	85L / 35Hz	85L / 35Hz	65L / 42Hz	75L / 38Hz
Recommended reflex box								

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

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