



SARL Son Lumière Concept
10 rue du Passavent, Zone du Val d'Orson
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W46Nd

WOOFER - 46cm / 18" - Neodym

Speaker type	Natural convection air cooling system			Forced air cooling system		
	W464-8	W464-8	W464-8	W464-8	W464-8	W464-8
Reference	7201Nd	7211Nd	7221Nd	7301Nd	7311Nd	7321Nd
	<i>Bass Extension</i>	<i>High SPL</i>	<i>Bass Extension High SPL</i>	<i>Bass Extension</i>	<i>High SPL</i>	<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	25-800	25-800	25-800	25-800	25-800	25-800
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	6,0@190	6,5@190	6,3@190	6,3@190	6,5@190	6,2@220
	Zmin	mH	1,46	1,89	1,69	1,46	1,89	1,76
Voice-coil inductance @ 1kHz	Le _{1k}	mH	0,60	0,87	0,73	0,63	0,87	0,76
Voice-coil inductance @ 10kHz	Le _{10k}	N/A	24,7	31,0	28,0	24,7	31,0	28,0
BL product	BL	kg	0,204	0,206	0,217	0,204	0,206	0,217
Moving mass	Mms							

THIELE-SMALL PARAMETERS: TYPICAL (QC LIMITS)

	Fs	Hz	34(±5)	34(±5)	33(±5)	34(±5)	34(±5)	33(±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	5,5	5,5	5,6	3,6	3,7	3,8
Mechanical quality factor	Qes	1	0,38	0,25	0,30	0,38	0,25	0,30
Electrical quality factor	Qts	1	0,35	0,24	0,28	0,34	0,24	0,28
Total quality factor	Cms	10 ⁻⁶ .m/N	105	105	105	105	105	105
Mechanical suspension compliance	Sd	m ²	0,125	0,125	0,125	0,125	0,125	0,125
Effective piston area	Vas	m ³	0,230	0,230	0,230	0,230	0,230	0,230
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	1,250	1,000	1,188	1,250	1,000	1,188
Linear displacement volume	η ₀	%	2,4	3,5	2,7	2,4	3,5	2,7
Reference efficiency	Vas.Qts ²	10 ⁻³ .m ³	29,5	13,5	18,8	27,6	12,9	17,9
Unity load volume								

ABSOLUTE MAXIMUM RATINGS

	Vmax	V	160	160	175	175	175	180
Short term max. input voltage	Xdam	±mm	21	21	21	21	21	21
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	6,2	6,2	6,2	6,2	6,2	6,2
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	250L / 35Hz	150L / 38Hz	200L / 33Hz	200L / 35Hz	120L / 38Hz	180L / 35Hz
Recommended reflex box								

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

upgrade : 10/10/2006

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