preliminary **07-mars-14**

SPECIFICATION SHEET

Speaker type:			**XR131-8**
Model number :		**SP**	**970**
Upgrade			0
Architecture particularities:		***- Time aligned coaxial HF driver - Ferrite magnet system with symetric BL(x) and Le(x) - Long excursion suspension with linear behavior for large signal***	
Typical characteristics			
Rated impedance	Z	Ω	8
Half space sensitivity (1W@1m)	-	dB SPL	89
Usable freq. range	-	Hz	60-3000
Power handling capacity (AES)	-	W	100
Max Sound Pressure Level	SPLmax	dB SPL	105
Min. impedance modulus	Zmin	Ω@Hz	6.2@550
Voice-coil inductance @ 1kHz	Le_{1k}	mH	0.34
Voice-coil inductance @ 10kHz	Le_{10k}	mH	0.21
BL product	BL	N/A	8.0
Moving mass	Mms	kg	0.0107
Thiele-Small parameters: Typical (QC limits)			
Resonance frequency	Fs	Hz	67(±10)
DC Resistance	Re	Ω	5.7(±0.5)
Mechanical quality factor	Qms	1	3.8
Electrical quality factor	Qes	1	0.40
Total quality factor	Qts	1	0.36
Mechanical suspension compliance	Cms	10^{-6}.m/N	520
Effective piston area	Sd	m^2	0.0092
Equivalent Cas air load	Vas	m^3	0.0062
Max linear excursion	Xmax	±mm	±5.0
Linear displacement volume	Vd	$10^{-3}.m^3$	0.0460
Reference efficiency	η_0	%	0.45
Unity load volume	$Vas.Qts^2$	$10^{-3}.m^3$	0.8
Absolute maximum ratings			
Short term max. input voltage	Vmax	V	60
Max.excursion before damage	Xdam	±mm	±12
Ambient operating temperature	Ta	°C	-10 to +50
Storage temperature	-	°C	-20 to +70
Environemental withstanding	-	-	Outdoor+
Application information			
Air volume occupied by the driver	-	$10^{-3}.m^3$	0.38
Speaker net mass		kg	2.080
Baffle cut-out Diameter (Front mounting)		mm	124.5
Bolt number & Metric Diameter		-	4x M5
Bolt Circle Diameter		mm	147.0
Max Overall dimension (on ears)		mm	163.0
Max Overall Diemension (out of ears)		mm	136.0
Flange Height		mm	12.5
Max Magnet Diameter		mm	117.5
Max Depth (Front mounting)		mm	75.0
Recommended reflex box	Vb/Fb	Lts/Hz	8L / 60Hz

Note: These specifications are stated to be representative of current production after conditionning. Because of our continous research they are subject to change without notice. The latest upgrade dating cancels the previous one.

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