

XR131-SP970Nd

preliminary



Coaxial Low-mid frequency unit + HF driver

Architecture

Time aligned coaxial HF driver

Noiseless natural convection Intercooling System

Neodymium magnet system with symmetric BL(x) and Le(x)

Long excursion suspension with linear behavior for large signal

Typical characteristics

Rated impedance	Z	8	Ω
Half space sensitivity (1W@1m)	-	89	dB SPL
Usable freq. range	-	60-3000	Hz
Power handling capacity (AES)	-	100	W
Max Sound Pressure Level	SPL _{max}	106	dB SPL
Min. impedance modulus	Z _{min}	6.2@550	Ω @Hz
Voice-coil inductance @ 1kHz	Le _{1k}	0.34	mH
Voice-coil inductance @ 10kHz	Le _{10k}	0.21	mH
BL product	BL	8.1	N/A
Moving mass	Mms	0.0107	kg

Thiele-Small parameters: Typical (QC limits)

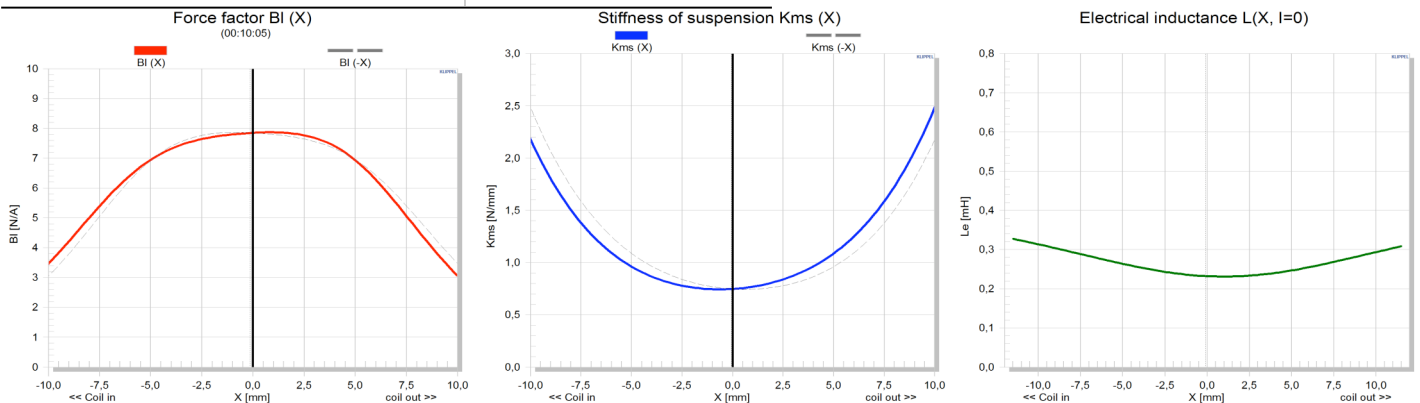
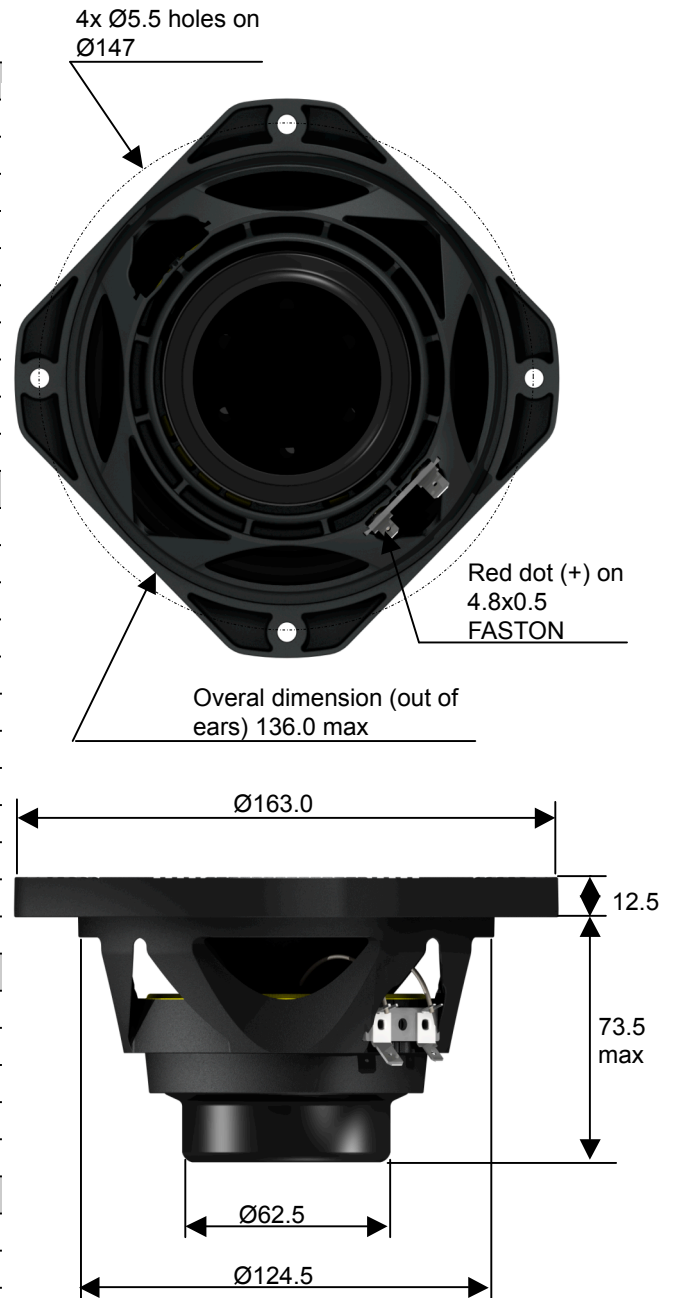
Resonance frequency	Fs	67(±10)	Hz
DC Resistance	Re	5.7(±0.5)	Ω
Mechanical quality factor	Qms	3.8	1
Electrical quality factor	Qes	0.39	1
Total quality factor	Qts	0.35	1
Suspension compliance	Cms	520	10 ⁻⁶ .m/N
Effective piston area	Sd	0.0092	m ²
Equivalent Cas air load	Vas	0.0062	m ³
Max linear excursion	Xmax	±5.0	mm
Linear displacement volume	Vd	0.046	10 ⁻³ .m ³
Reference efficiency	η_0	0.46	%
Unity load volume	Vas.Qts ²	0.8	10 ⁻³ .m ³

Absolute maximum ratings

Short term max. input voltage	Vmax	60	V
Max.excursion before damage	Xdam	±12	mm
Ambient operating temperature	Ta	-10 to +50	°C
Storage temperature	-	-20 to +70	°C
Environmental withstanding	-	Outdoor+	-

Application information

Air volume occupied by the driver	0.180	10 ⁻³ .m ³
Speaker net mass	1.040	kg
Recommended reflex box	8L/60Hz	Lts/Hz
Electrical connection	6.35x0.8 + 4.8x0.5 FASTON	



Note: These specifications are stated to be representative of current production after conditioning. Because of our continuous research they are subject to change without notice.