

Nominal Diameter	30 cm / 12 "
Rated Impedance	8
Reference efficiency (1W @ 1m)	94.5 dB SPL
Power Handling Capacity	500 W AES
SPL max (continuous)	118 dB SPL
Usable frequency range	30 - 1500 Hz
Speaker net mass	5.9 kg

Architecture highlights :

- Noiseless Natural Convection Intercooling System
- Neodymium magnet System with symmetric BL(x) and Le(x) characteristics
- Long excursion suspension with linear behavior for large signal
- High excursion 25.0 mm winding voice coil
- Double side coated diaphragm (Tropical withstanding)



Motor architecture

Voice coil diameter	mm	77
Voice coil length	mm	25
Air gap height	mm	10

Typical characteristics

Rated impedance	Z	Ω	8
Half space sensitivity (1W@1m)	-	dB SPL	94.5
Usable freq. range	-	Hz	30 - 1500
Power handling capacity (AES)	-	W	500
Max Sound Pressure Level	SPL _{max}	dB SPL	118
Min. impedance modulus	Z _{min}	Ω @Hz	6.9@230
Voice-coil inductance @ 1kHz	Le _{1k}	mH	1.598
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0.740
BL product	BL	N/A	22.4
Moving mass	Mms	kg	0.095

Thiele-Small parameters

Resonance frequency	Fs	Hz	43 (± 5)
DC Resistance	Re	Ω	5.4 (± 0.5)
Mechanical quality factor	Qms		4.84
Electrical quality factor	Qes		0.28
Total quality factor	Qts		0.26
Suspension compliance	Cms	10^{-6} .m/N	140
Effective piston area	Sd	m ²	0.0527
Equivalent Cas air load	Vas	m ³	0.0560
Max linear excursion	Xmax	mm	± 10.0
Linear displacement volume	Vd	10^{-3} .m ³	0.5269
Reference efficiency	η_0	%	1.6
Unity load volume	Vas.Qts ²	10^{-3} .m ³	3.8

Absolute maximum ratings

Short term max. input voltage	Vmax	V	125
Max.excursion before damage	Xdam	mm	18.0
Ambient operating temperature	Ta	$^{\circ}$ C	-10 to +50
Storage temperature		$^{\circ}$ C	-20 to +70
Environmental withstanding			Tropical

Mounting information

Air volume occupied by the driver	10^{-3} .m ³	2.1
Speaker net mass	kg	5.9
Baffle cut-out diameter (front mounting)	mm	282.00
Bolt number & Metric diameter	-	8x M6
Bolt circle diameter	mm	300 to 308
Max overall dimension (on ears)	mm	326.5
Max overall dimension (out of ears)	mm	307.0
Flange height	mm	13.0
Max magnet diameter	mm	140.0
Max depth (front mounting)	mm	141.5
Recommended reflex box	Lts / Hz	40L / 42Hz
Electrical connection		$\varnothing 4$ mm Push buttons

