

Nominal Diameter	20 cm / 8 "
Rated Impedance	12
Reference efficiency (1W @ 1m)	94 dB SPL
Power Handling Capacity	250 W AES
SPL max (continuous)	114 dB SPL
Usable frequency range	80 - 4000 Hz
Speaker net mass	4.48 kg

Architecture highlights :

- Double side Coated diaphragm (Tropical withstanding)
- Natural convection Intercooler System
- High compliance double half-roll Fabric Surround
- Ultra light CCAR voice coil



Motor architecture			
Voice coil diameter	mm		51
Voice coil length	mm		15
Air gap height	mm		8

Typical characteristics			
Rated impedance	Z	Ω	12
Half space sensitivity (1W@1m)	-	dB SPL	94
Usable freq. range	-	Hz	80 - 4000
Power handling capacity (AES)	-	W	250
Max Sound Pressure Level	SPL _{max}	dB SPL	114
Min. impedance modulus	Z _{min}	Ω @Hz	11.0@400
Voice-coil inductance @ 1kHz	Le _{1k}	mH	1.658
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0.679
BL product	BL	N/A	17.0
Moving mass	M _{ms}	kg	0.023

Thiele-Small parameters			
Resonance frequency	F _s	Hz	85 (±12)
DC Resistance	Re	Ω	9.5 (±1)
Mechanical quality factor	Q _{ms}		2.73
Electrical quality factor	Q _{es}		0.40
Total quality factor	Q _{ts}		0.35
Suspension compliance	C _{ms}	10 ⁻⁶ .m/N	150
Effective piston area	S _d	m ²	0.0219
Equivalent Cas air load	V _{as}	m ³	0.0102
Max linear excursion	X _{max}	mm	± 4.5
Linear displacement volume	V _d	10 ⁻³ .m ³	0.0986
Reference efficiency	η_0	%	1.5
Unity load volume	V _{as} .Q _{ts} ²	10 ⁻³ .m ³	1.3

Absolute maximum ratings			
Short term max. input voltage	V _{max}	V	110
Max.excursion before damage	X _{dam}	mm	10.0
Ambient operating temperature	T _a	°C	-10 to +50
Storage temperature		°C	-20 to +70
Environmental withstanding			Tropical

Mounting information			
Air volume occupied by the driver	10 ⁻³ .m ³		1.00
Speaker net mass	kg		4.48
Baffle cut-out diameter (front mounting)	mm		185.0
Bolt number & Metric diameter	-		4x M5
Bolt circle diameter	mm		217.0
Max overall dimension (on ears)	mm		234.0
Max overall dimension (out of ears)	mm		205.0
Flange height	mm		9.5
Max magnet diameter	mm		158.0
Max depth (front mounting)	mm		90.0
Recommended reflex box	Lts / Hz		10L / 80Hz
Electrical connection			Ø4 mm Push buttons

