

Nominal Diameter	<b>13 cm / 5 "</b>
Rated Impedance	<b>8</b>
Reference efficiency (1W @ 1m)	<b>94 dB SPL</b>
Power Handling Capacity	<b>80 W AES</b>
SPL max (continuous)	<b>109 dB SPL</b>
Usable frequency range	<b>110 - 4000 Hz</b>
Speaker net mass	<b>2.02 kg</b>

### Architecture highlights :

- Noiseless natural convection Intercooling System
- Ferrite magnet system with symmetric BL(x) and Le(x)
- High definition CCAR vented voice coil
- Critical damping Flat Foam Surround
- Lightweight basket

### Motor architecture

Voice coil diameter	mm	38
Voice coil length	mm	7.5
Air gap height	mm	6

### Typical characteristics

Rated impedance	Z	$\Omega$	8
Half space sensitivity (1W@1m)	-	dB SPL	94
Usable freq. range	-	Hz	110 - 4000
Power handling capacity (AES)	-	W	80
Max Sound Pressure Level	SPL <sub>max</sub>	dB SPL	109
Min. impedance modulus	Z <sub>min</sub>	$\Omega$ @Hz	6.1@800
Voice-coil inductance @ 1kHz	Le <sub>1k</sub>	mH	0.599
Voice-coil inductance @ 10kHz	Le <sub>10k</sub>	mH	0.235
BL product	BL	N/A	8.8
Moving mass	Mms	kg	0.008

### Thiele-Small parameters

Resonance frequency	Fs	Hz	200 ( $\pm 40$ )
DC Resistance	Re	$\Omega$	5.3 ( $\pm 0.5$ )
Mechanical quality factor	Qms	1	5.99
Electrical quality factor	Qes	1	0.70
Total quality factor	Qts	1	0.62
Suspension compliance	Cms	$10^{-6}$ .m/N	80
Effective piston area	Sd	m <sup>2</sup>	0.0109
Equivalent Cas air load	Vas	m <sup>3</sup>	0.0013
Max linear excursion	Xmax	mm	$\pm 2.5$
Linear displacement volume	Vd	$10^{-3}$ .m <sup>3</sup>	0.0273
Reference efficiency	$\eta_0$	%	1.4
Unity load volume	Vas.Qts <sup>2</sup>	$10^{-3}$ .m <sup>3</sup>	0.5

### Absolute maximum ratings

Short term max. input voltage	V <sub>max</sub>	V	50
Max.excursion before damage	X <sub>dam</sub>	mm	$\pm 3$
Ambient operating temperature	Ta	$^{\circ}$ C	-10 to +50
Storage temperature		$^{\circ}$ C	-20 to +70
Environmental withstanding			humidity proof



### Mounting information

Air volume occupied by the driver	$10^{-3}$ .m <sup>3</sup>	0.38
Speaker net mass	kg	2.02
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 dimension (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	Lts / Hz	1.5L sealed
Electrical connection		6.35x0.8 + 4.8x0.5 FASTON

