

Nominal Diameter	<b>25 cm / 10 "</b>
Rated Impedance	<b>8</b>
Reference efficiency (1W @ 1m)	<b>99 dB SPL</b>
Power Handling Capacity	<b>250 W AES</b>
SPL max (continuous)	<b>120 dB SPL</b>
Usable frequency range	<b>120 - 3000 Hz</b>
Speaker net mass	<b>4.1 kg</b>

### Architecture highlights :

- Very high sensitivity & SPLmax 10" Midrange driver with low THD level
- Midrange unit with critical damping diaphragm
- High definition CCAR vented voice-coil
- Neodymium magnet system with symmetric BL(x) and Le(x)
- Natural convection Intercooler System
- Low profile with flat motor

### Motor architecture

Voice coil diameter	mm	77
Voice coil length	mm	12
Air gap height	mm	10

### Typical characteristics

Rated impedance	Z	$\Omega$	8
Half space sensitivity (1W@1m)	-	dB SPL	99
Usable freq. range	-	Hz	120 - 3000
Power handling capacity (AES)	-	W	250
Max Sound Pressure Level	SPL <sub>max</sub>	dB SPL	120
Min. impedance modulus	Z <sub>min</sub>	$\Omega$ @Hz	6.7@550
Voice-coil inductance @ 1kHz	Le <sub>1k</sub>	mH	1.154
Voice-coil inductance @ 10kHz	Le <sub>10k</sub>	mH	0.550
BL product	BL	N/A	21.7
Moving mass	M <sub>ms</sub>	kg	0.038

### Thiele-Small parameters

Resonance frequency	F <sub>s</sub>	Hz	90 (±18)
DC Resistance	Re	$\Omega$	5.5 (±0.6)
Mechanical quality factor	Q <sub>ms</sub>	1	2.98
Electrical quality factor	Q <sub>es</sub>	1	0.25
Total quality factor	Q <sub>ts</sub>	1	0.23
Suspension compliance	C <sub>ms</sub>	10 <sup>-6</sup> .m/N	80
Effective piston area	S <sub>d</sub>	m <sup>2</sup>	0.0377
Equivalent Cas air load	V <sub>as</sub>	m <sup>3</sup>	0.0163
Max linear excursion	X <sub>max</sub>	mm	± 2.0
Linear displacement volume	V <sub>d</sub>	10 <sup>-3</sup> .m <sup>3</sup>	0.0753
Reference efficiency	$\eta_0$	%	4.6
Unity load volume	V <sub>as</sub> .Q <sub>ts</sub> <sup>2</sup>	10 <sup>-3</sup> .m <sup>3</sup>	0.9

### Absolute maximum ratings

Short term max. input voltage	V <sub>max</sub>	V	90
Max.excursion before damage	X <sub>dam</sub>	mm	4.0
Ambient operating temperature	T <sub>a</sub>	°C	-10 to +50
Storage temperature		°C	-20 to +70
Environmental withstanding			humidityproof



### Mounting information

Air volume occupied by the driver	10 <sup>-3</sup> .m <sup>3</sup>	1.3
Speaker net mass	kg	4.1
Baffle cut-out diameter (front mounting)	mm	229.0
Bolt number & Metric diameter	-	6x M5
Bolt circle diameter	mm	266.0
Max overall dimension (on ears)	mm	283.5
Max overall dimension (out of ears)	mm	255.0
Flange height	mm	11.0
Max magnet diameter	mm	140.0
Max depth (front mounting)	mm	100.5
Recommended reflex box	Lts / Hz	4 - 6L sealed
Electrical connection		Ø4 mm Push buttons

