

Nominal Diameter	<b>38 cm / 15 "</b>
Rated Impedance	<b>8</b>
Reference efficiency (1W @ 1m)	<b>98 dB SPL</b>
Power Handling Capacity	<b>500 W AES</b>
SPL max (continuous)	<b>122 dB SPL</b>
Usable frequency range	<b>40 - 2000 Hz</b>
Speaker net mass	<b>4.8 kg</b>

### Architecture highlights :

- Natural convection Intercooling System
- Neodymium magnet system with symmetric BL(x) and Le(x) characteristics
- High compliance double half-roll fabric surround
- Ultra light injection molded basket



### Motor architecture

Voice coil diameter	mm	77
Voice coil length	mm	20
Air gap height	mm	10

### Typical characteristics

Rated impedance	Z	$\Omega$	8
Half space sensitivity (1W@1m)	-	dB SPL	98
Usable freq. range	-	Hz	40 - 2000
Power handling capacity (AES)	-	W	500
Max Sound Pressure Level	SPL <sub>max</sub>	dB SPL	122
Min. impedance modulus	Z <sub>min</sub>	$\Omega$ @Hz	6.9@220
Voice-coil inductance @ 1kHz	Le <sub>1k</sub>	mH	1.689
Voice-coil inductance @ 10kHz	Le <sub>10k</sub>	mH	0.695
BL product	BL	N/A	23.7
Moving mass	Mms	kg	0.109

### Thiele-Small parameters

Resonance frequency	Fs	Hz	37 ( $\pm 5$ )
DC Resistance	Re	$\Omega$	5.6 ( $\pm 0.6$ )
Mechanical quality factor	Qms	1	3.17
Electrical quality factor	Qes	1	0.25
Total quality factor	Qts	1	0.23
Suspension compliance	Cms	$10^{-6}$ .m/N	170
Effective piston area	Sd	m <sup>2</sup>	0.0892
Equivalent Cas air load	Vas	m <sup>3</sup>	0.1891
Max linear excursion	Xmax	mm	$\pm 7.5$
Linear displacement volume	Vd	$10^{-3}$ .m <sup>3</sup>	0.6690
Reference efficiency	$\eta_0$	%	3.7
Unity load volume	Vas.Qts <sup>2</sup>	$10^{-3}$ .m <sup>3</sup>	10.4

### Absolute maximum ratings

Short term max. input voltage	Vmax	V	125
Max. excursion before damage	Xdam	mm	14.0
Ambient operating temperature	Ta	$^{\circ}$ C	-10 to +50
Storage temperature		$^{\circ}$ C	-20 to +70
Environmental withstanding			humidityproof

### Mounting information

Air volume occupied by the driver	$10^{-3}$ .m <sup>3</sup>	4.4
Speaker net mass	kg	4.8
Baffle cut-out diameter (front mounting)	mm	356.0
Bolt number & Metric diameter	-	8x M6
Bolt circle diameter	mm	370 & 388
Max overall dimension (on ears)	mm	406.5
Max overall dimension (out of ears)	mm	380.5
Flange height	mm	13.0
Max magnet diameter	mm	140.0
Max depth (front mounting)	mm	168.5
Recommended reflex box	Lts / Hz	75L / 44Hz
Electrical connection		$\varnothing 4$ mm Push buttons

