Woofer 19 W-38

Advantages

The largely vented magnet system of the Dynaudio 19 W-38 woofer yields very low compression, ideal heat dissipation and an outstanding resonance damping.

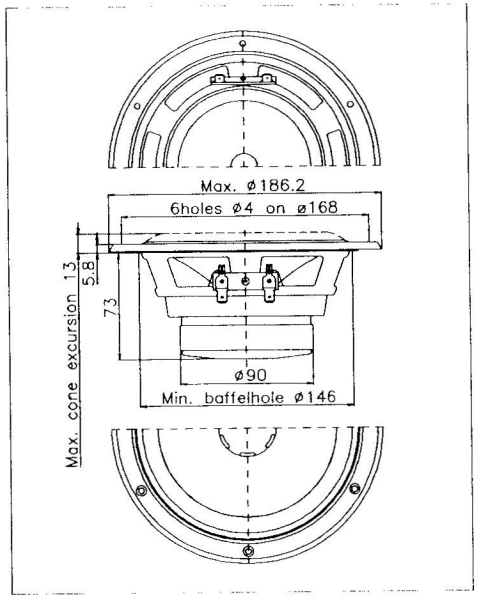
The cone is moulded as one piece including the "dust cap" which totally eliminates the problems a separate dust cap can create and secures homogeneity of the response. The cone material is a PP based mixture with high rigidity and excellent damping at the same time.

The rubber surround is fastened to the back side of the cone to ensure stability of performance.

Applications

For use in high quality two way bass reflex systems with a volume between 10 - 20 liter.

Can be used with 6dB or higher order crossover.



Typical Data

	4 ohm	8 ohm
Fs	45 Hz	45 Hz
Qt	0.3	0.4
Vas	21 liter	23 liter

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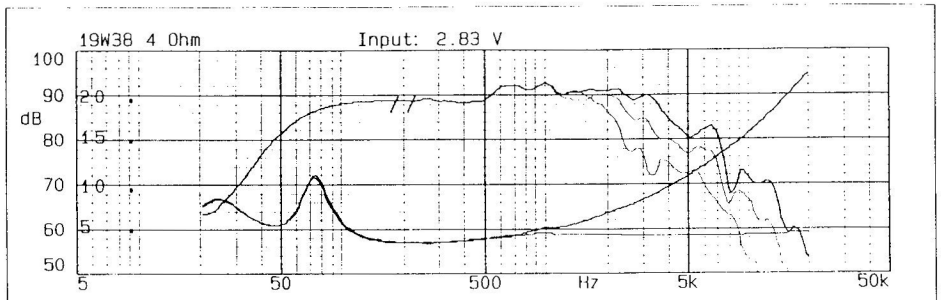
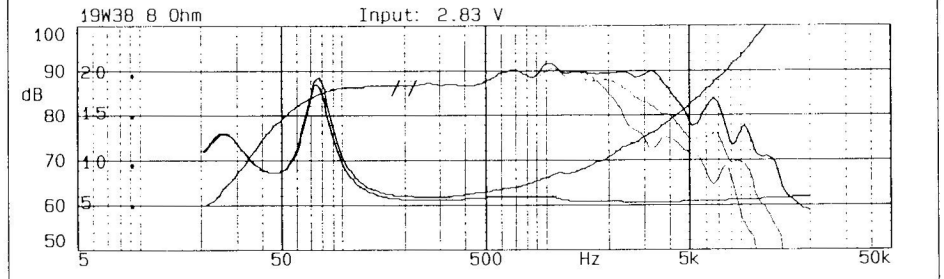
Measurements



Frequency response 19 W-38 on-axis, 30° and 60°, distance 1m, 4 ohm version.
Impedance curve with and without correction circuit (4.7 ohm and 20 μF).



Frequency response 19 W-38 on-axis, 30° and 60°, distance 1m, 8 ohm version.
Impedance curve with and without correction circuit (6.8 ohm and 20 μF).

Measured in a 15 liter bass reflex cabinet (port 35 x 80 mm). Measurements below 200 Hz nearfield.

Specifications

Thiele-Small Parameter[1]		4 ohm	8 ohm
Q, mechanical	Qm	2.1	2.5
Q, electrical	Qe	0.4	0.5
Q, total	Qt	0.3	0.4
Resonance frequency	Fs	45 Hz	45 Hz
Maximum impedance	Zmax	17 ohm	30 ohm
Moving mass	Mms	16 g	15 g
Force factor	BL	5.5 Tm	6.4 Tm
Equiv. volume	Vas	21 liter	23 liter
Effective cone area	Sd	138 cm²	138 cm²
Lin. excursion (p-p)	Xmax	6 mm	5 mm
Max. excursion (p-p)		26 mm	26 mm

Voice Coil		4 ohm	8 ohm
Diameter	d	38 mm	38 mm
Length	h	13 mm	12 mm
Layers	n	2	2
Inductance 10 kHz	Le	0.19 mH	0.27 mH
Nom. impedance	Zvc	4 ohm	8 ohm
DC resistance	Re	2.9 ohm	5.2 ohm
Sensitivity	2.83 V	see curve	see curve
Power Handling:			
Nominal long term	IEC>	75 watts	75 watts
Transient	10ms>	250 W	250 W
Net weight		1.4 kgs	1.4 kgs
Overall dimension		Ø 187 x 80 mm	

[1]Thiele-Small Parameter measured with correction circuit.

All specifications subject to change without notice.