SIGMA SW 200

200 mm MIDWOOFER



The **SIGMA SW 200** is the largest midwoofer in the SIGMA series (200 mm), built for door installation. A total Q of 0.57 and a 44.6 Hz resonance give controlled kick bass and solid fundamentals there. The HEXATEC compound cone made of paper and woven fabric is stiff yet well damped, and the frequency response stays even up to about 5 kHz. The 37 mm voice coil handles 200 W RMS, and sensitivity is 92.8 dB (2.83 V / 1 m).

MEASURED DATA AND SPECIFICATIONS

Electrical

DC resistance	R_{dc}	2.6	Ω
Nominal impedance	Z_N	3	Ω
Resonance frequency	f_s	44.6	Hz

Motor

Voice coil diameter		37	mm
Force factor	Bl	5.61	Tm

Q factors

Mechanical Q factor	Q_{ms}	4.18
Electrical Q factor	Q_{es}	0.66
Total Q factor	Q_{ts}	0.57

Efficiency

Sensitivity 2.83 V / 1 m	SPL	92.8	dB

Power handling

Power handling RMS	200	W
Power handling max.	275	W

Mechanical

Moving mass	m_{ms}	28.4	g
Effective piston area	S_d	215	cm^2
Compliance	C_{ms}	0.45	mm/N
Mechanical resistance	R_{ms}	1.90	Ns/m
Equivalent air volume	V_{as}	29.0	l
Linear excursion	X_{max}	± 3.55	mm
Displacement volume	V_d	76.3	cm^3

Installation and construction

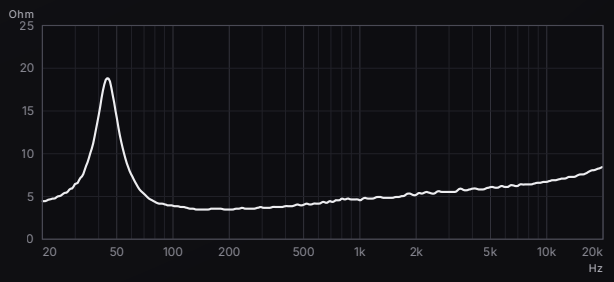
Outer diameter	210	mm
Bolt circle	196	mm
Cut-out diameter	182	mm
Mounting depth	76	mm
Magnet diameter	90	mm
Mounting holes	8 × Ø 4.5	mm
Cone	Paper and fabric	

FREQUENCY RESPONSE

smoothed

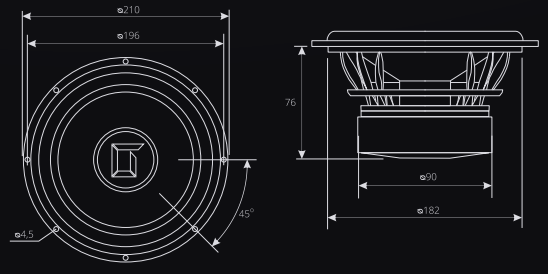


IMPEDANCE



DIMENSIONS

dimensions in mm



- RMS power handling: continuous amplifier power per speaker, without clipping.