GLADEN®

PRODUCT DATA SHEET
GA-BETA130.2

BETA BW 130

130 mm MIDWOOFER · BETA 130.2 COMPONENT SYSTEM



The **BETA BW 130** is the 130 mm midwoofer of the BETA 130.2 component system. A paper cone, rubber surround and a ferrite motor with a 25 mm voice coil sit in a pressed-steel basket with four mounting tabs. With 51 mm mounting depth and a 118.5 mm cut-out it fits many factory locations in doors and trim panels. Its total Q of 0.88 is intended for operation without an enclosure, in the door or on a baffle.

MEASURED DATA AND SPECIFICATIONS

Electrical

DC resistance	R_{dc}	2.63	Ω
Nominal impedance	Z_N	3	Ω
Resonance frequency	f_s	82.3	Hz
Impedance at resonance	Z_{max}	14.7	Ω
Minimum impedance	Z_{min}	2.85	Ω
Inductance at 1 kHz	L_e	0.14	mH
Power handling RMS		45	W
Power handling max.		90	W

Q factors

Mechanical Q factor	Q_{ms}	4.95
Electrical Q factor	Q_{es}	1.08
Total Q factor	Q_{ts}	0.88

Mechanical

Moving mass	M_{ms}	8.20	g
Effective piston area	S_d	88.3	cm²
Compliance	C_{ms}	0.46	mm/N
Mechanical resistance	R_{ms}	0.87	kg/s
Force factor	BL	3.22	Tm
Equivalent air volume	V_{as}	4.98	l
Linear excursion	X_{max}	± 1.6	mm

Efficiency

Efficiency	η_0	0.25	%
Sensitivity 1 W / 1 m	SPL	86.0	dB
Sensitivity 2.83 V / 1 m	SPL	90.9	dB

BETA 130.2 system

Frequency range	70 Hz – 20 kHz
System sensitivity	87 dB
Tweeter	BETA BT 25, silk 25 mm
Crossover	CR-BETA, 3.5 kHz

Construction

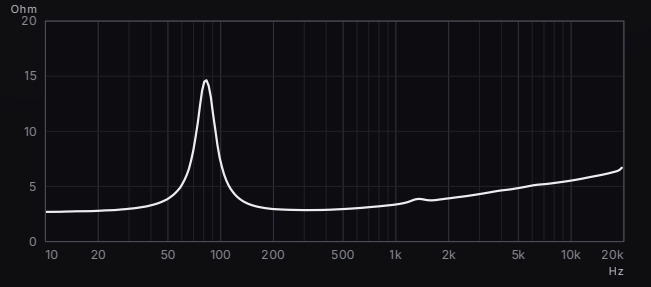
Cone	Paper
Surround	Rubber
Basket	Pressed steel
Fixing	4 tabs, 90°
Magnet	Ferrite, Ø 76 mm
Voice coil diameter	25 mm

Mounting dimensions

Basket rim	A	130	mm
Overall (tabs)	Ü	138	mm
Cut-out	C	118.5	mm
Motor, outer diameter		81.5	mm
Mounting depth	T	51	mm
Build-out height	H	5	mm
Overall height	G	56	mm

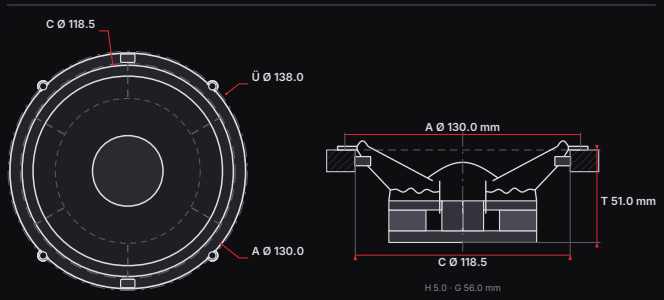
IMPEDANCE

free air



DIMENSIONS

dimensions in mm



- Thiele-Small parameters measured in free air, small signal, after break-in. Efficiency and sensitivity calculated from the Thiele-Small parameters.
- X_{max}: excursion at which the force factor drops to 82 % of its rest value.
- In the set the midwoofer runs without a low-pass filter, connected in parallel to the amplifier output. The tweeter is connected through the CR-BETA crossover: 12 dB/octave high-pass at 3.5 kHz, tweeter level +3 dB or 0 dB.