

ENA 165.2

165 mm MIDWOOFER · COMPONENT SYSTEM



The **ENA 165.2** is the 165 mm two-way component system of the ENA entry series. This sheet covers the midwoofer of the set. With 57 mm mounting depth and a 141 mm cut-out it fits many factory locations in the door. Its total Q of 1.28 is intended for operation without an enclosure, in the door or on a baffle.

MEASURED DATA AND SPECIFICATIONS

Electrical

DC resistance	R_{dc}	3.27	Ω
Nominal impedance	Z_N	4	Ω
Resonance frequency	f_s	86.8	Hz
Impedance at resonance	Z_{max}	12.4	Ω
Minimum impedance	Z_{min}	3.46	Ω
Inductance at 10 kHz	L_e	0.151	mH
Power handling RMS		30	W
Power handling max.		60	W

Q factors

Mechanical Q factor	Q_{ms}	4.88	
Electrical Q factor	Q_{es}	1.74	
Total Q factor	Q_{ts}	1.28	

Mechanical

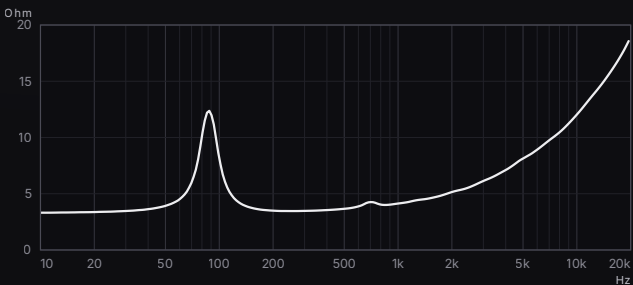
Moving mass	M_{ms}	11.05	g
Effective piston area	S_d	136.8	cm ²
Compliance	C_{ms}	0.30	mm/N
Force factor	BL	3.36	Tm
Equivalent air volume	V_{as}	8.0	l

Efficiency

Sensitivity 1 W / 1 m	SPL	86.7	dB
Sensitivity 2.83 V / 1 m	SPL	89.7	dB

IMPEDANCE

free air



ENA 165.2 system

Frequency range	65 Hz – 20 kHz
System minimum impedance	3.4 Ω

Construction

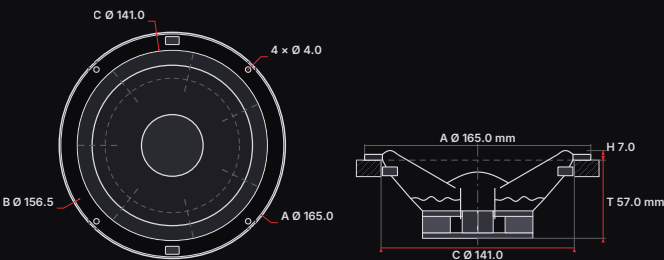
Cone	Polypropylene
Surround	Rubber
Basket	Pressed steel
Basket spokes	7
Magnet	Ferrite
Voice coil diameter	25 mm
Weight	680 g

Mounting dimensions

Outer diameter	A	165	mm
Bolt circle	B	156.5	mm
Mounting holes		4 × Ø 4	mm
Cut-out	C	141	mm
Mounting depth	T	57	mm
Build-out height	H	7	mm
Overall height		64	mm
Flange thickness		4.2	mm

DIMENSIONS

dimensions in mm



▪ Thiele-Small parameters measured in free air, small signal.

▪ In the set the midwoofer runs without a low-pass filter. The tweeter is connected through a 3.3 µF capacitor: 6 dB/octave high-pass, approx. 12 kHz electrical.