ZETA ZM 80

80 mm MIDRANGE



The **ZM 80** is the 80 mm midrange of the ZETA series, working above the ZW 165 and ZW 200 mid-woofers. A 25 mm voice coil with 6.5 mm winding height moves a Nomex-paper cone of no more than 4.32 g: low inertia, clean decay and a response that stays linear beyond 10 kHz. The die-cast aluminium basket with large windows below the spider keeps the rear volume clear and prevents compression behind the cone.

MEASURED DATA AND SPECIFICATIONS

Electrical

DC resistance	R_{dc}	2.5	Ω
Nominal impedance	Z_N	3	Ω
Resonance frequency	f_s	91.93	Hz

Voice coil

Voice coil diameter		25	mm
Voice coil height		6.5	mm

Q factors

Mechanical Q factor	Q_{ms}	2.92
Electrical Q factor	Q_{es}	0.42
Total Q factor	Q_{ts}	0.37

Mechanical

Moving mass	m_d	4.32	g
Effective piston area	S_m	34.2	cm^2
Mechanical resistance	R_{ms}	0.85	kg/s
Compliance	C_{ms}	0.69	mm/N
Force factor	BL	3.85	Tm
Equivalent air volume	V_{as}	1.14	l

Efficiency

Efficiency	η	0.2	%
Sensitivity 1 W / 1 m	SPL	85.08	dB
Sensitivity 2.83 V / 1 m	SPL	90.13	dB

Installation and construction

Power handling RMS	80	W
Power handling max.	120	W
Linear excursion X_{max}	± 1.75	mm
Mechanical excursion X_{mech}	± 4	mm
Outer diameter	99	mm
Mounting diameter	75.5	mm
Mounting depth	37.5	mm
Cone	Nomex paper	
Surround	NBR	
Basket	Die-cast aluminium	
Motor	Neodymium	

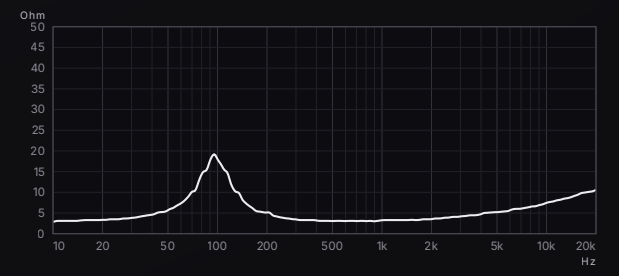
FREQUENCY RESPONSE

1 W / 1 m



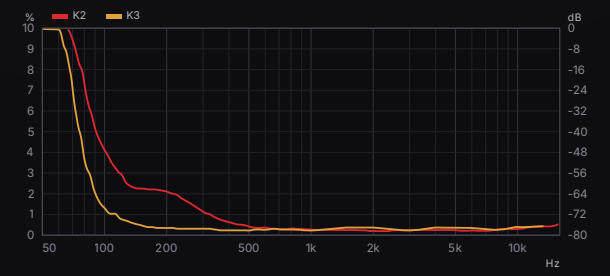
IMPEDANCE

free air



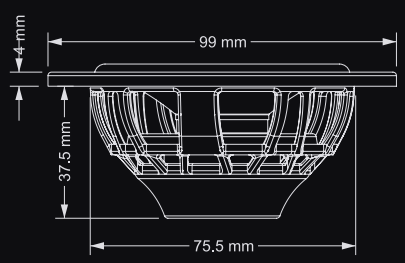
HARMONIC DISTORTION

1 W / 1 m



DIMENSIONS

dimensions in mm



- Recommended active crossover: 300 Hz high-pass, 3.0 kHz low-pass, Linkwitz-Riley 24 dB/oct. Use a 400 Hz high-pass for high-output applications.