SoundUp 165SU-3

165 mm MIDWOOFER



The **SoundUp 165SU-3** is a 165 mm midwoofer with carbon fibre cone and 3 Ω nominal impedance for door installation. A strong motor with 4.82 Tm at 12 g moving mass and a total Q of 0.48 give tight fundamentals. The frequency response is very smooth from 100 Hz to 4 kHz, and sensitivity is 94.3 dB (2.83 V / 1 m).

MEASURED DATA AND SPECIFICATIONS

Electrical

DC resistance	R_{dc}	2.7	Ω
Nominal impedance	Z_N	3	Ω
Resonance frequency	f_s	65.5	Hz

Motor

Force factor	Bl	4.82	Tm

Q factors

Mechanical Q factor	Q_{ms}	3.20
Electrical Q factor	Q_{es}	0.57
Total Q factor	Q_{ts}	0.48

Efficiency

Sensitivity 2.83 V / 1 m	SPL	94.3	dB

Power handling

Power handling RMS	100	W
Power handling max.	150	W

Mechanical

Moving mass	m_{ms}	12.0	g
Effective piston area	S_d	135	cm^2
Compliance	C_{ms}	0.49	mm/N
Mechanical resistance	R_{ms}	1.55	Ns/m
Equivalent air volume	V_{as}	12.5	l

Installation and construction

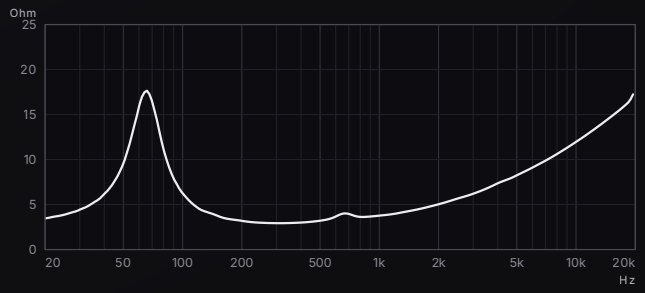
Outer diameter	166	mm
Bolt circle	151	mm
Cut-out diameter	146	mm
Mounting depth	63.5	mm
Mounting holes	8 × Ø 4.5	mm
Voice coil diameter	25.5	mm
Cone	Carbon fibre	

FREQUENCY RESPONSE

2.83 V / 1 m, smoothed

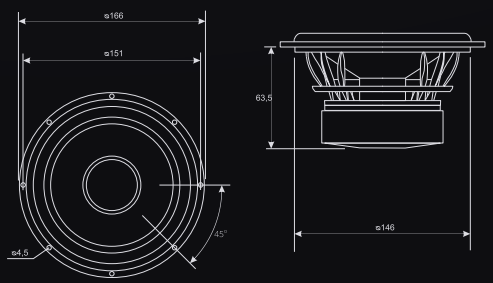


IMPEDANCE



DIMENSIONS

dimensions in mm



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