

SPECIFICATIONS

SW178WA01 7" alu-cone subwoofer

SW178WA01 is a woofer designed for dedicated subwoofer applications. It works equally well for high-end hi-fi, high quality home theater systems, and top multimedia setups.

The extremely stiff aluminium cone, the long linear throw, exaggerated ventilation, and the special dynamic linearization short circuiting ring together makes up for an unusually linear and low-distortion woofer. Even at very high signal levels, the unit behaves controlled and without distortion.

Due to very low mechanical losses SW178WA01 masters equally well low level details and dynamic requirements.

SW178WA01 is the ideal candidate for compact high-performance subwoofers.

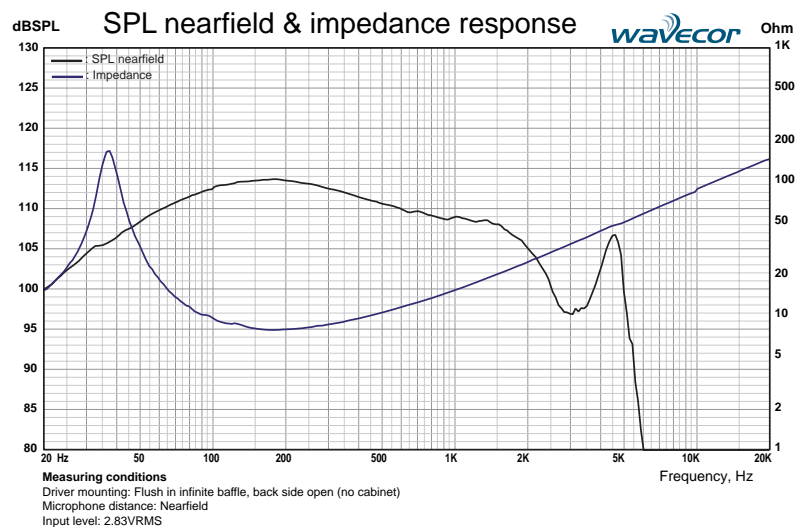


FEATURES

- Very rigid aluminium cone to ensure piston motion at high levels and for better heat transfer at high continuous power levels
- Vented voice coil former for reduced distortion and compression
- Vented center pole with dual flares for reduced noise level at large cone excursions
- Vented chassis for lower air flow speed reducing audible distortion
- Heavy-duty black fiber glass voice coil bobbin to reduce mechanical losses resulting in better dynamic performance and low-level details
- Large motor system with 1½" voice coil diameter and 110mm magnet for better control and efficiency
- Built-in alu field stabilizing ring for reduced high-level distortion
- Long linear stroke motor for reduced distortion at high levels
- Linear suspension with specially designed CONEX damper (spider) for long durability under extreme operating conditions
- 4-layer voice coil for increased control and better small-cabinet performance
- Gold plated terminals to prevent oxidation for long-term reliable connection
- Sealing gasket pre-attached for hassle-free mounting and secure cabinet sealing

Parameter	Value	Unit
Nominal size	7	[inch.]
Nominal impedance	8	[ohm]
Recommended upper frequency limit	400	[Hz]
Sensitivity, 2.83V/1m, (average 100-300Hz)	86	[dB]
Voice coil diameter	38.8	[mm]
Voice coil height	16	[mm]
Air gap height	6.0	[mm]
Voice coil resistance, RDC	6.3	[ohm]
Voice coil inductance	1.3	[mH]
Magnet weight (dual ferrite)	680	[g]
Effective radiating area, Sd	131	[sq.cm]
Power handling, continuous, IEC 268-5	100	[W]
Resonance freq., Fs	33	[Hz]
Moving mass, incl. air	31.5	[g]
Force factor, Bxl	11.5	[Tm]
Mechanical Q, Qm	20	-
Electrical Q, Qe	0.32	-
Total Q, Qt	0.32	-
Suspension compliance, Cms	0.70	[mm/N]
Equiv. air volume, Vas	17	[lit.]
Total unit net weight	1.9	[kg]

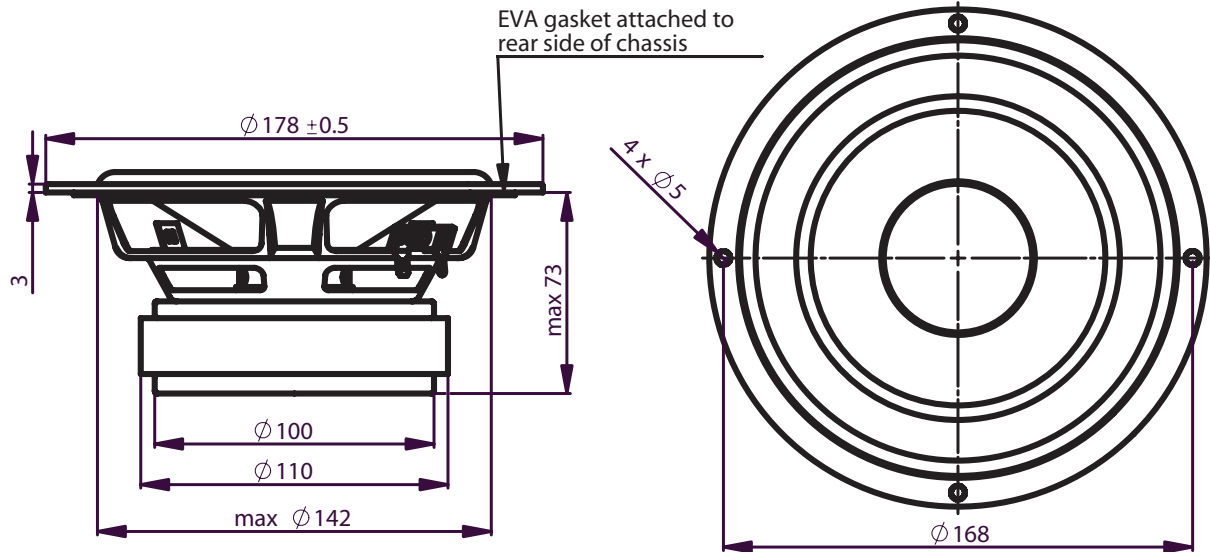
SW178WA01 SPL nearfield and impedance curve



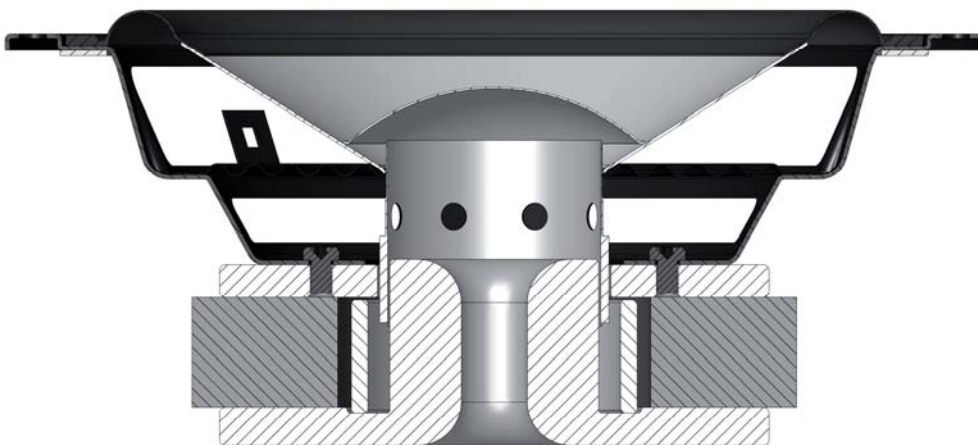
SPECIFICATIONS

SW178WA01 7" alu-cone subwoofer

OUTLINE DRAWING (dimensions in mm)



CROSS SECTION



PACKAGING INFORMATION

SW263WA01-01	8 ohm, one piece per box
SW263WA03-01	4 ohm, one piece per box