SPECIFICATIONS



SW263WA01/03 10¼" die cast, alu cone suwoofers, 8/4 ohm

SW263WA01 and SW263WA03 are woofers designed for dedicated subwoofer applications. They work equally well for high-end hi-fi, high quality home theater systems, and top multimedia setups.

The extremely rigid aluminium cone, the long linear throw, exaggerated ventilation, and the special dynamic linearization short circuiting rings 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 low mechanical losses SW263WA01 masters equally well low level details and extreme dynamic requirements.

FEATURES

- Extremely rigid aluminium cone to ensure piston motion at high levels and for better heat transfer at high continuous power levels
- Die cast alu chassis with additional spacers for optimal ventilation and increased stroke
- Vented cone neck for reduced distortion and compression
- 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 2" voice coil diameter and huge dual 145mm magnet for better control and efficiency
- · Black-plated magnet structure steel parts for increased heat dissipation and power handling
- Upper and lower built-in alu field stabilizing rings 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 performanceGold plated terminals to ensure long-term trouble free connection

NOMINAL SPECIFICATIONS

Notes	Parameter	SW263WA03		SW263WA01		
		Before burn-in	After burn-in	Before burn-in	After burn-in	Unit
	Nominal size	10¼		10)¼	[inch.]
	Nominal impedance	4		8		[ohm]
	Recommended max. upper frequency limit	300		300		[Hz]
1, 3	Sensitivity, 2.83V/1m (calculated from T/S parameters)	86		84		[dB]
2	Power handling, short term, IEC 268-5, no additional filtering					[W]
2	Power handling, long term, IEC 268-5, no additional filtering					[W]
2	Power handling, continuous, IEC 268-5, no additional filtering	ering 200		200		[W]
	Effective radiating area, Sd	314		314		[cm ²]
3, 6	Resonance frequency (free air, no baffle), Fs	29	27	23	20.5	[Hz]
	Moving mass, incl. air (free air, no baffle), Mms	173		159		[g]
3	Force factor, Bxl	14.2		18.7		[N/A]
3, 6	Suspension compliance, C _{ms}	0.18	0.20	0.29	0.38	[mm/N]
3, 6	Equivalent air volume, V _{as}	25	28	40.6	53	[lit.]
3, 6	Mechanical resistance, Rms	3.3	3.4	2.1	2.1	[Ns/m]
3, 6	Mechanical Q, Qms	9.4	8.8	11.4	10.0	[-]
3, 6	Electrical Q, Q _{es}	0.52	0.50	0.42	0.37	[-]
3, 6	Total Q, Q _{ts}	0.50	0.47	0.41	0.36	[-]
4	Voice coil resistance, RDC	3.4		6.3		[ohm]
5	Voice coil inductance, Le (measured at 1 kHz)	1.5		2.5		[mH]
	Voice coil inside diameter	51		51		[mm]
	Voice coil winding height	32		32		[mm]
	Air gap height	8		8		[mm]
	Theoretical linear motor stroke, Xmax	±12		±12		[mm]
	Magnet weight	2.7		2.7		[g]
	Total unit net weight excl. packaging	6.2		6.2		[kg]
3, 5	Krm	5.7		10.1		[mohm]
3, 5	Erm	0.76		0.75		[-]
3, 5	K _{xm}	11.2		15.2		[mH]
3, 5	Exm	0.75		0.77		[-]

Note 1 Measured in infinite baffle.

Note 2 Tested in free air (no cabinet).

Note 3 Measured using a semi-constant current source, nominal level 2 mA.

Note 4 Measured at 25 deg. C

Note 5 It is generally a rough simplification to assume that loudspeaker transducer voice coils exhibit the characteristics of an inductor. Instead it is a far more accurate approach to use the more advanced model often referred to as the "Wright empirical model", also used in LEAP-4 as the TSL model (www.linearx.com), involving parameters K_{rm}, E_{rm}, K_{xm}, and E_{xm}. This more accurate transducer model is described in a technical paper here at our web site.

Note 6 After burn-in specifications are measured 12 hours after exiting the transducer by a 20 Hz sine wave for 2 hours at level 10/14.1 V_{RMS} (4/8 ohm version). The unit is not burned in before shipping.

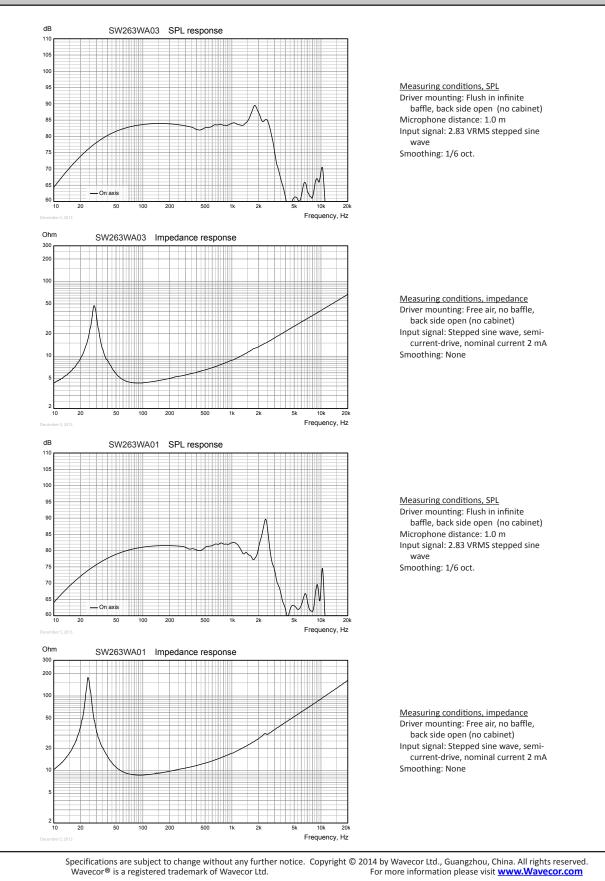
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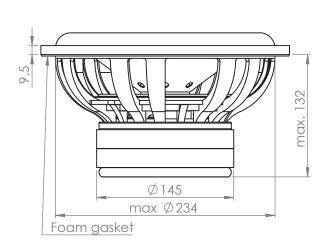


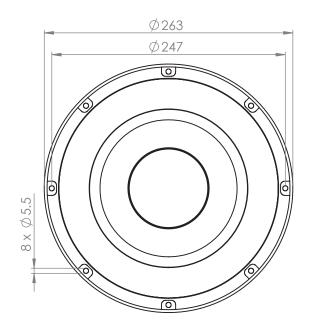
SPECIFICATIONS



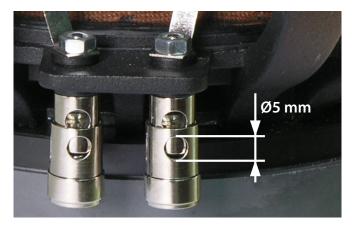
SW263WA01/03 10¹/₄" die cast, alu cone suwoofers, 8/4 ohm

OUTLINE DRAWING (nominal dimensions)





CONNECTIONS



PACKAGING AND ORDERING INFORMATION

Part no. SW263WA03-01	4 ohm version, individual packaging (one piece per box)
Part no. SW263WA01-01	8 ohm version, individual packaging (one piece per box)

Latest update: Oct. 9, 2014

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