PREVIEW - **samples available from Jan. 2014**

OEM Steel Frame **Mid/woofer Units**

4½" - 5¾" - 6½"

Suitable for larger scale OEM manufacturing, where high performance and small production tolerances go hand-in-hand with cost effectiveness.

FEATURES

- Balanced Drive motor structure ensuring symmetrical force factor vs. coil travel in order to reduce even order harmonic distortion
- Vented voice coil former for reduced distortion and compression
- Low-loss suspension (high Qm) for better reproduction of details and dynamics
- Vented chassis for lower air flow speed reducing audible distortion
- Heavy-duty fiber glass voice coil bobbin to increase power handling and reduce mechanical losses resulting in better dynamic performance and low-level details
- Optimized suspension with a new Polyester-mix material used for the damper (spider) for long durability
- Gold plated terminals to ensure long-term trouble free connection

Parameter	Value						Unit
	WF118-4ohm	WF118-8ohm	WF146-4ohm	WF146-8ohm	WF168-4ohm	WF168-8ohm	
Nominal size	4½	4½	5¾	5¾	6½	6½	[inch.]
Nominal impedance	4	8	4	8	4	8	[ohm]
Recommended max. upper frequency limit	4	4	3.5	3.5	3	3	[kHz]
Sensitivity, 2.83V/1m	87.5	85.5	90.5	88	91	88	[dB]
Power handling, continuous, IEC 268-5, no additional filtering	40	40	50	50	60	60	[W]
Effective radiating area, S_d	54	54	93	93	131	131	[cm²]
Resonance frequency (free air, no baffle), F_S	62	65	56	58	46	48	[Hz]
Moving mass, incl. air (free air, no baffle), M_{ms}	5.5	5.0	8.0	7.5	12	11	[g]
Force factor, Bxl	3.55	4.25	4.5	5.4	4.9	6.05	[N/A]
Suspension compliance, C_{ms}	1.2	1.2	1.0	1.0	1.0	1.0	[mm/N]
Equivalent air volume, V_{as}	5.0	5.0	12	12	24	24	[lit.]
Mechanical resistance, R_{ms}	0.50	0.50	0.50	0.50	0.50	0.50	[Ns/m]
Mechanical Q, Q_{ms}	4.3	4.1	5.7	5.5	6.9	6.7	[-]
Electrical Q, Q_{es}	0.54	0.66	0.45	0.54	0.46	0.56	[-]
Total Q, Q_{ts}	0.48	0.56	0.41	0.49	0.43	0.51	[-]
Voice coil resistance, R_{DC}	3.2	5.8	3.2	5.7	3.3	6.1	[ohm]
Voice coil inside diameter	26	26	26	26	32	32	[mm]
Voice coil winding height	9.2	9.2	10.6	10.6	12	12	[mm]
Air gap height	3	3	4	4	4	4	[mm]
Theoretical linear motor stroke, X_{max}	±3.1	±3.1	±3.3	±3.3	±4	±4	[mm]