



Woofer ARN-312-00/4

Woofer with very low resonance frequency and low distortion intended for use in high quality domestic loudspeaker system.

ACOUSTICAL DATA

Rated noise power ¹⁾	100	W
Short term maximum power ²⁾	300	W
Rated impedance	4	Ohm
Resonance frequency F_s ⁴⁾	22.000	Hz
Rated frequency range	22 - 1000	Hz
Sensitivity ³⁾	90	dB

TS PARAMETERS

Acquired by MLSSA	D-0-10	
Effective piston area S_d	459.960	cm ²
DC resistance of voice coil R_e	3.512	Ohm
Mechanical Q factor Q_{ms}	1.470	
Electrical Q factor Q_{es}	0.375	
Total Q factor Q_{ts}	0.299	
Voice coil inductance L_e	0.872	
Equivalent volume V_{as}	263.346	l
Moving mass (including air load) M_{ms}	47.494	g
Suspension compliance C_{ms}	886.269	uM/Newton
Force factor Bl	8.28	Tm
Maximum linear displacement X_{max} ⁵⁾	9.5	mm

MECHANICAL DATA

Voice coil carrier material	aluminium	
Voice coil diameter	51.7	mm
Winding height of voice coil	17.5	mm
Yoke diameter	50.8	mm
Air gap height	8	mm
Magnet external diameter	140	mm
Magnet internal diameter	63	mm
Magnet height	17	mm
Compensating magnet external diameter	-	mm
Compensating magnet internal diameter	-	mm
Compensating magnet height	-	mm
Weight	4.5	kg

1) DIN IEC 268-5, closed box 70 dm³.

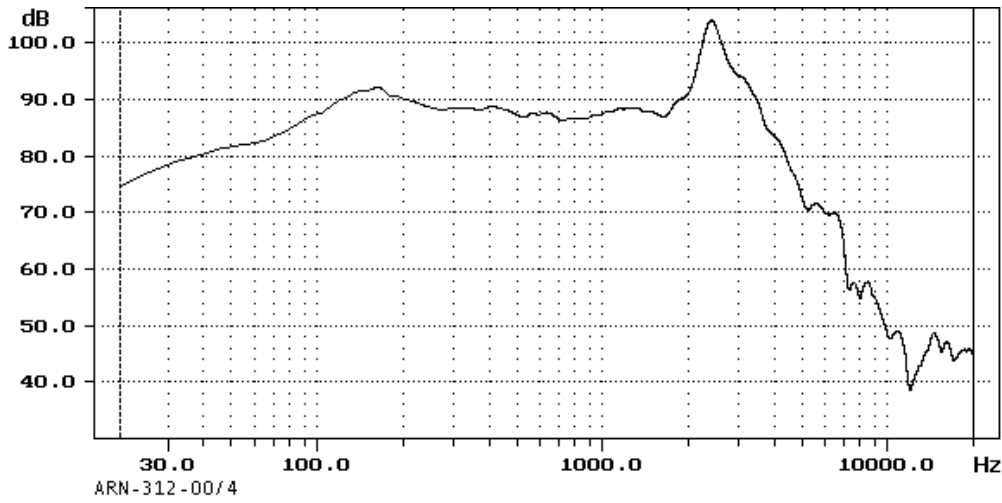
2) CSN IEC 268-5, closed box 70 dm³.

3) CSN IEC 268-5, standard baffle. 1W, 1 m, 100 - 1000 Hz

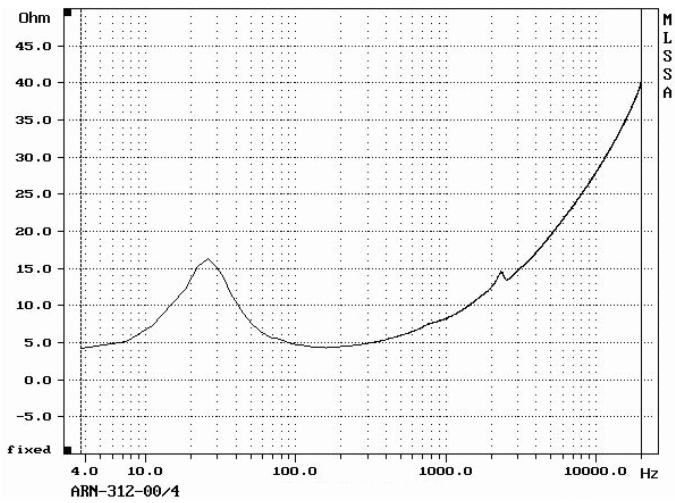
4) -2 Hz +3 Hz

5) Peak - peak

Frequency response



Impedance Magnitude



Drawing

