Woofer

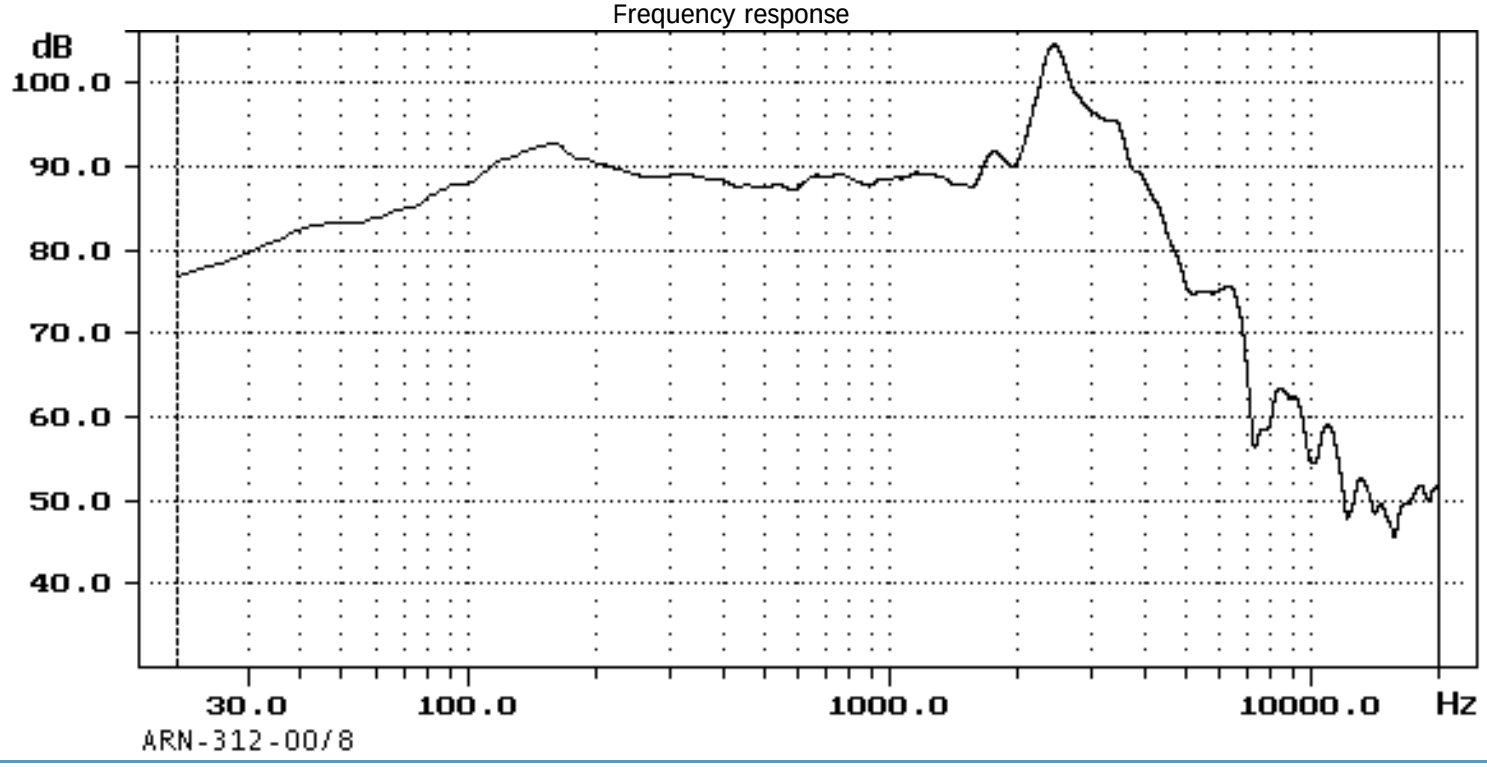
ARN-312-00/8

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

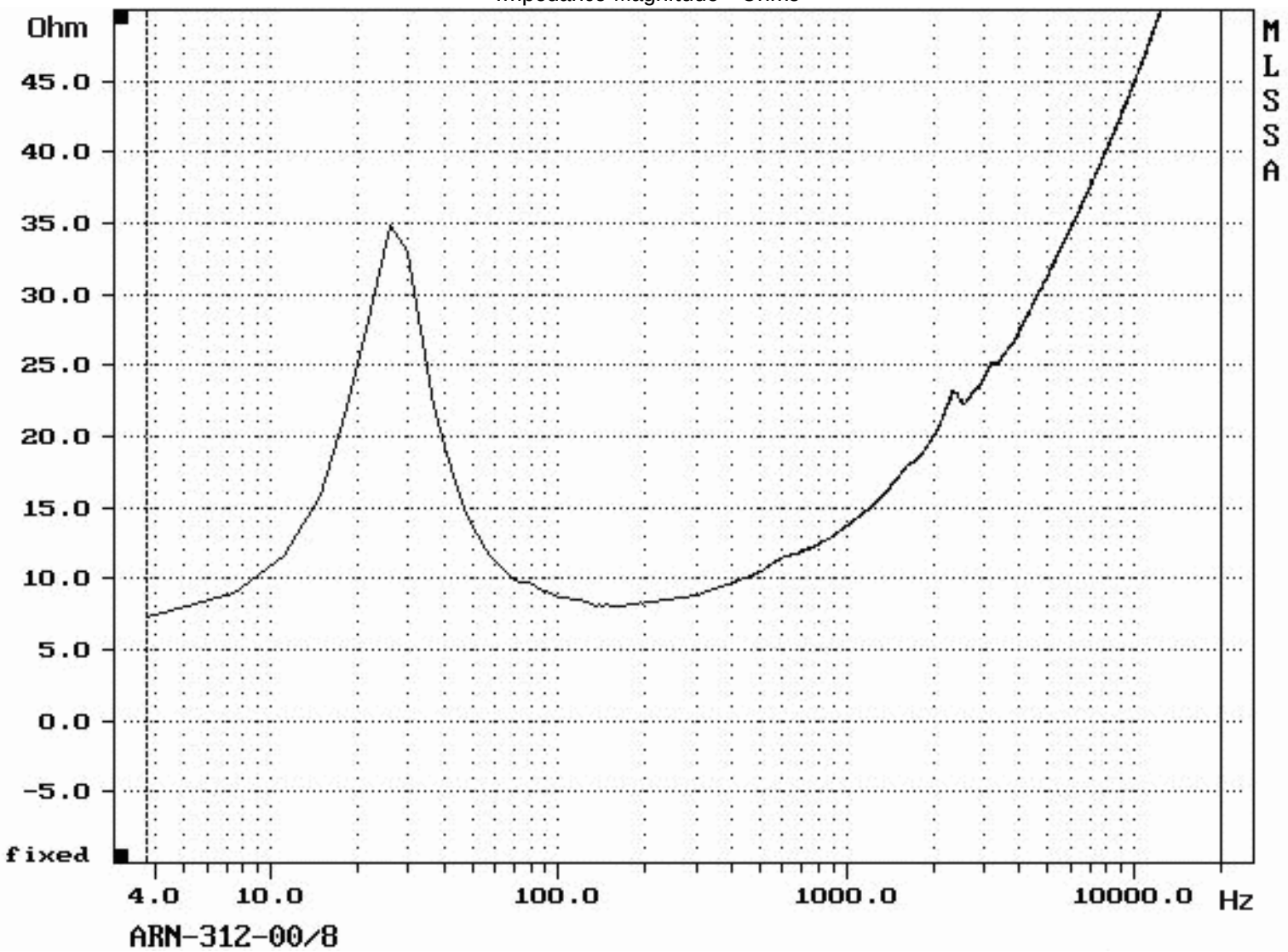
ACOUSTICAL DATA		
Rated noise power [1)]	100	W
Short term maximum power [2)]	300	W
Rated impedance	8	Ohm
Resonance frequency Fs [4)]	26.037	Hz
Rated frequency range	20 - 1000	Hz
Sensitivity [3)]	90	dB
TS PARAMETERS		
Acquired by MLSSA 10.0.D		
Effective piston area Sd	459.960	cm^2
DC resistance of voice coil Re	7.164	Ohm
Mechanical Q factor Qms	2.064	
Electrical Q factor Qes	0.489	
Total Q factor Qts	0.396	
Voice coil inductance Le	1.306	
Equivalent volume Vas	194.334	l
Moving mass (including air load) Mms	57.130	g
Suspension compliance Cms	654.015	uM/Newton
Force factor Bl	11.697	Tm
Maximum linear displacement Xmax [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
TEST CONDITIONS		
Sweep voltage	11	V
Frequency range	20 - 2000	Hz

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
5) Peak - peak

Frequency response



Impedance Magnitude - Ohms



Drawing