



Woofer

ARN-312-00/4

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	4 Ohm
Resonance frequency F_s ⁴⁾	24.531 Hz
Rated frequency range	20 - 1000 Hz
Sensitivity ³⁾	90 dB

TS PARAMETERS

Acquired by MLSSA 10.0.D	
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

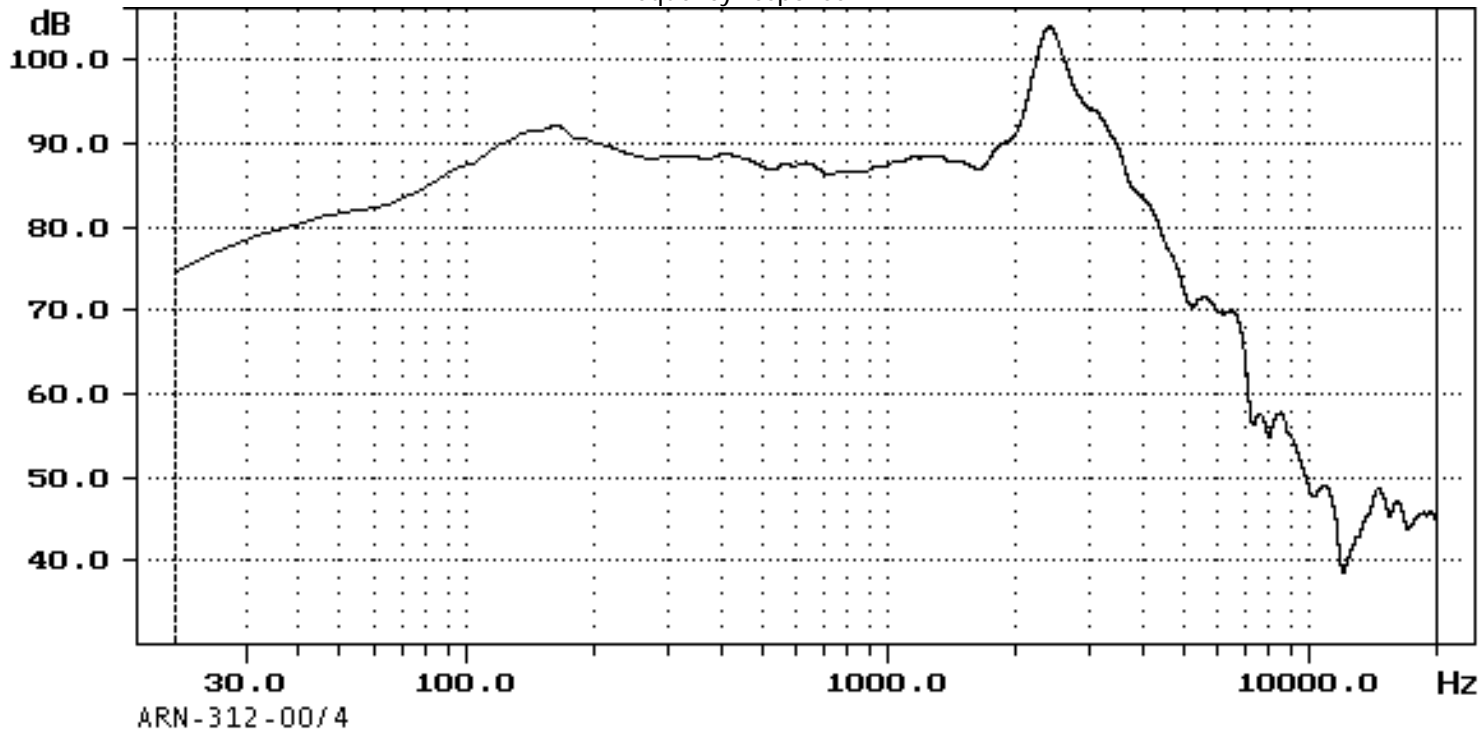
Voice coil carrier material	aluminium
Voice coil diameter	51.7 mm
Winding height of voice coil	17.5 mm
Yoke diameter	50.8 mm
Air gap height	8 mm
Magnet external diameter	140 mm
Magnet internal diameter	63 mm
Magnet height	17 mm
Compensating magnet external diameter	- mm
Compensating magnet internal diameter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

TEST CONDITIONS

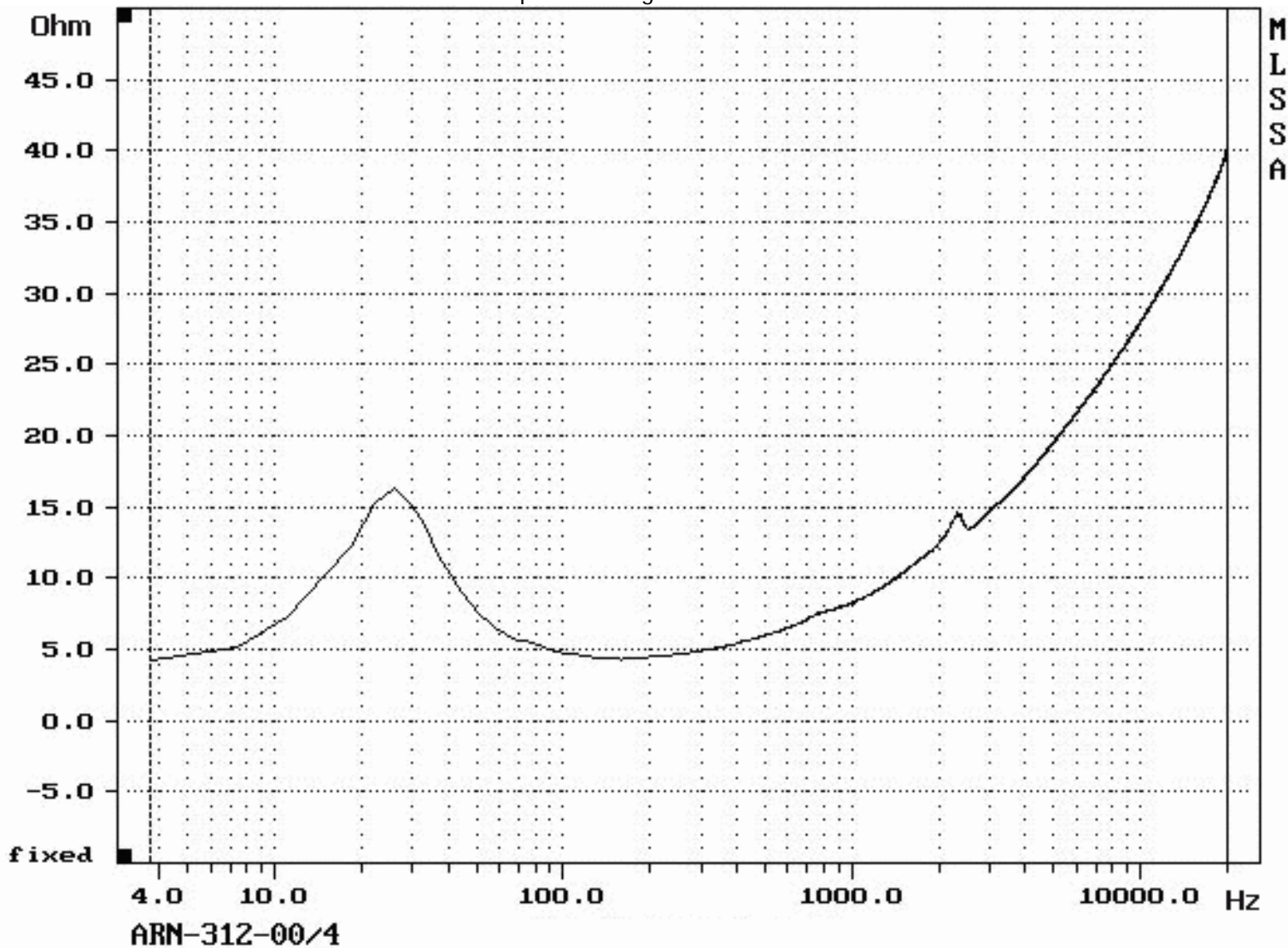
Sweep voltage	7.7 V
Frequency range	20 - 2000 Hz

- 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

