



Woofer

ARN-100-10/8

Woofer for small loudspeaker systems.

ACOUSTICAL DATA

Rated noise power ¹⁾	25 W
Short term maximum power ²⁾	50 W
Rated impedance	8 Ohm
Resonance frequency F_s ⁴⁾	73.809 Hz
Rated frequency range	100 - 6000 Hz
Sensitivity ³⁾	84 dB

TS PARAMETERS

Acquired by MLSSA 10.0.D	
Effective piston area S_d	46.570 cm ²
DC resistance of voice coil R_e	7.361 Ohm
Mechanical Q factor Q_{ms}	1.796
Electrical Q factor Q_{es}	0.766
Total Q factor Q_{ts}	0.537
Voice coil inductance L_e	0.234
Equivalent volume V_{as}	4.495 l
Moving mass (including air load) M_{ms}	3.150 g
Suspension compliance C_{ms}	1476.038 uM/Newton
Force factor Bl	3.746 Tm
Maximum linear displacement X_{max} ⁵⁾	0.5 mm

MECHANICAL DATA

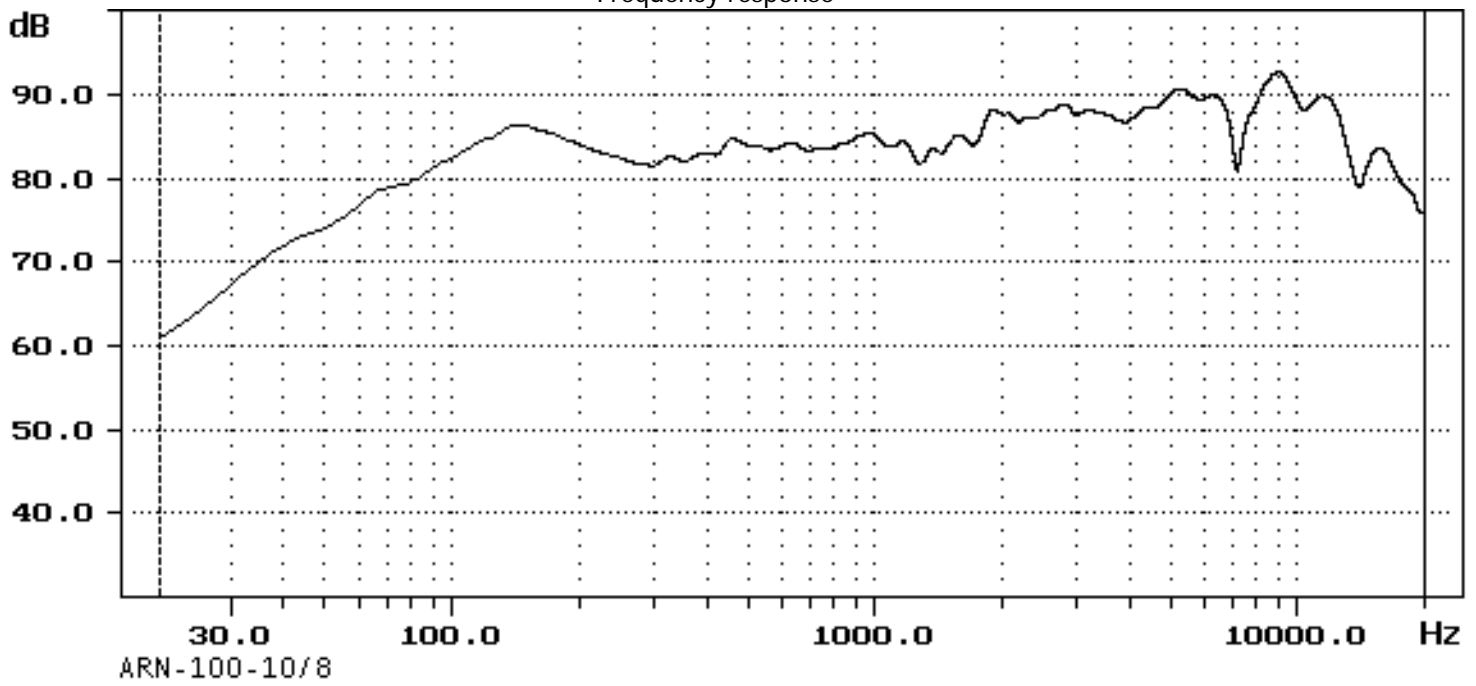
Voice coil carrier material	aluminium
Voice coil diameter	18.4 mm
Winding height of voice coil	4.5 mm
Yoke diameter	18 mm
Air gap height	4 mm
Magnet external diameter	72 mm
Magnet internal diameter	32 mm
Magnet height	15 mm
Compensating magnet external diameter	- mm
Compensating magnet internal diameter	- mm
Compensating magnet height	- mm
Weight	0.6 kg

TEST CONDITIONS

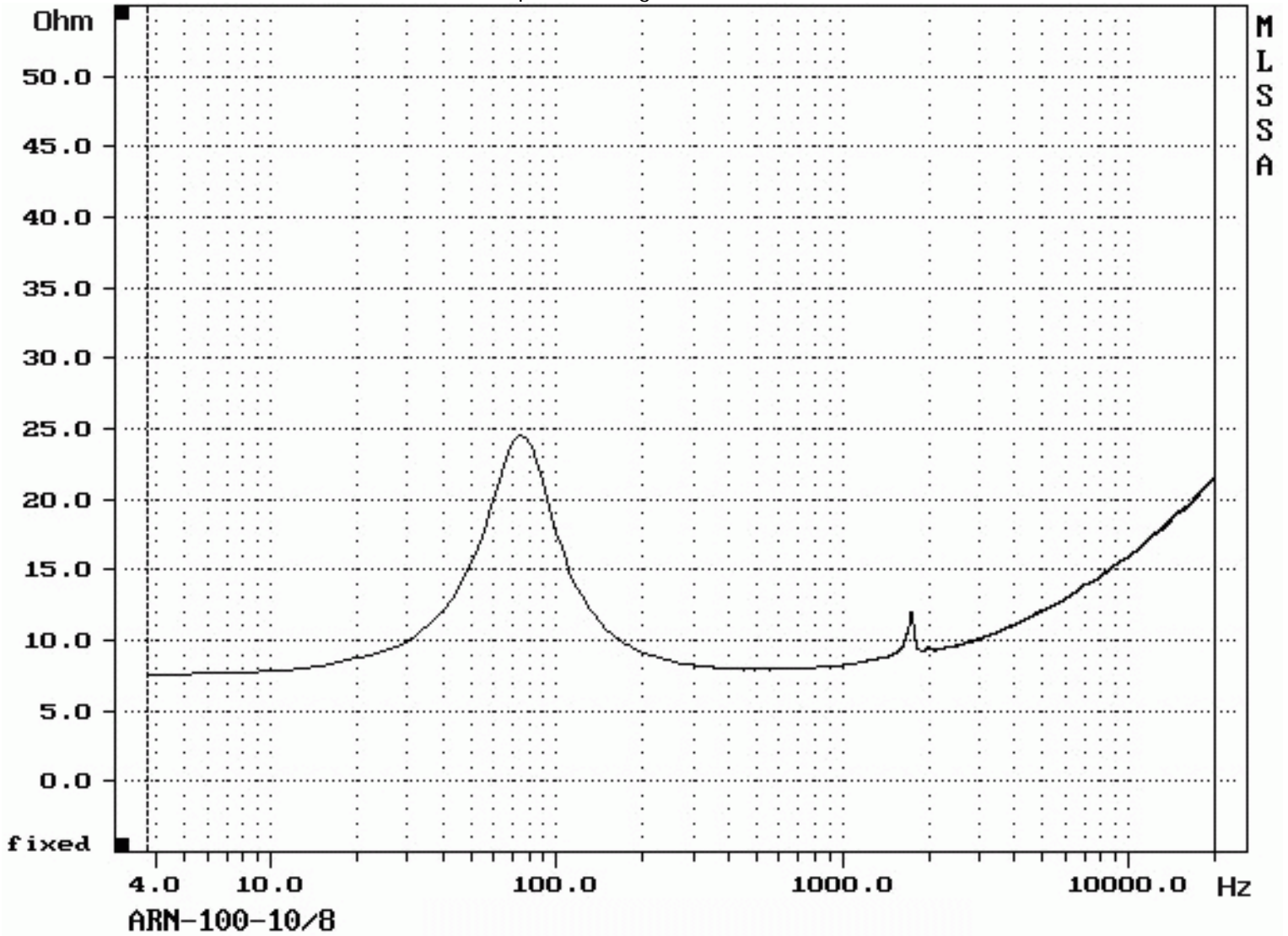
Sweep voltage	4.2 V
Frequency range	50 - 16000 Hz

- 1) DIN IEC 268-5, closed box 2,5 dm³.
- 2) CSN IEC 268-5, closed 2,5 dm³.
- 3) •SN IEC 268-5, standard baffle, 1W, 1 m, 100 - 6000 Hz
- 4) ±10 Hz
- 5) Peak - peak

Frequency response



Impedance Magnitude - Ohms



Drawing

