



Professional speaker ARA-312-00/8

The ARA-312-00 is a direct-radiating electrodynamic mid-bass loudspeaker. It is best suited in professional systems as upper-bass unit and as guitar and keyboard speaker

ACOUSTICAL DATA

Rated noise power ¹⁾	150	W
Short term maximum power ²⁾	350	W
Rated impedance	8	Ohm
Resonance frequency F_s ⁴⁾	50.000	Hz
Rated frequency range	80 - 5000	Hz
Sensitivity ³⁾	95	dB

TS PARAMETERS

Acquired by MLSSA	D-0-10	
Effective piston area S_d	502.730	cm ²
DC resistance of voice coil R_e	6.268	Ohm
Mechanical Q factor Q_{ms}	3.089	
Electrical Q factor Q_{es}	0.547	
Total Q factor Q_{ts}	0.465	
Voice coil inductance L_e	1.633	
Equivalent volume V_{as}	110.898	l
Moving mass (including air load) M_{ms}	40.213	g
Suspension compliance C_{ms}	312.423	uM/Newton
Force factor Bl	11.401	Tm
Maximum linear displacement X_{max} ⁵⁾	3.5	mm

MECHANICAL DATA

Voice coil carrier material	aluminium	
Voice coil diameter	51.7	mm
Winding height of voice coil	10	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) ČSN IEC 268-5, closed box 50 dm³.

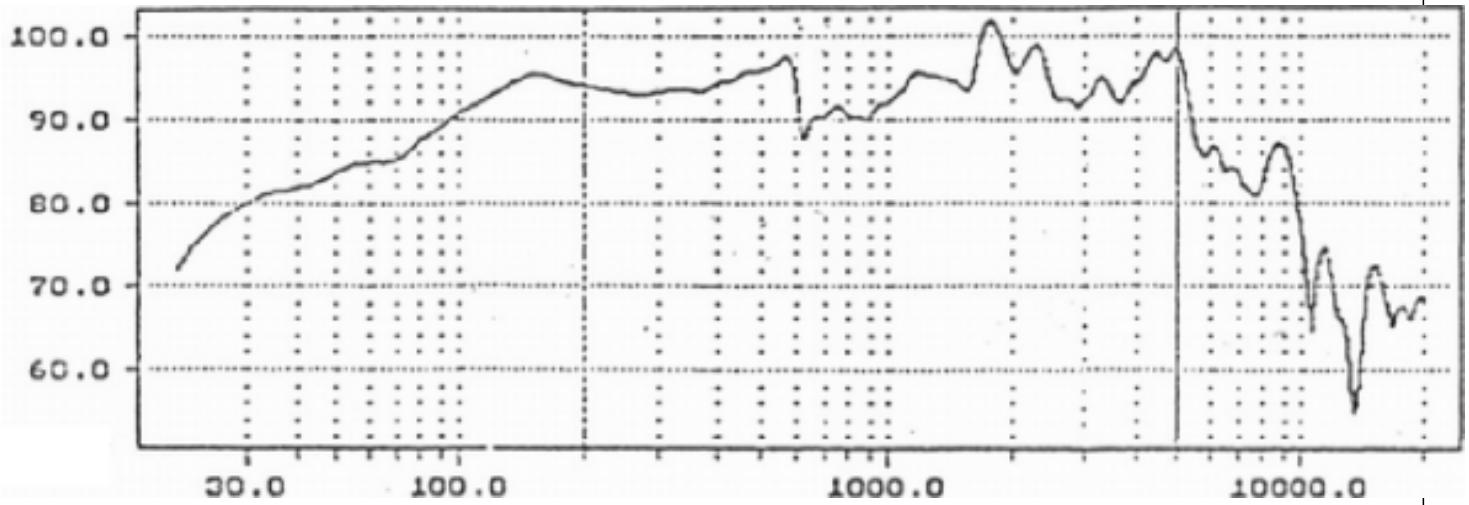
2) ČSN IEC 268-5, closed box 50 dm³.

3) ČSN IEC 268-5, standard baffle, 1 W, 1 m, 200 - 5 000 Hz

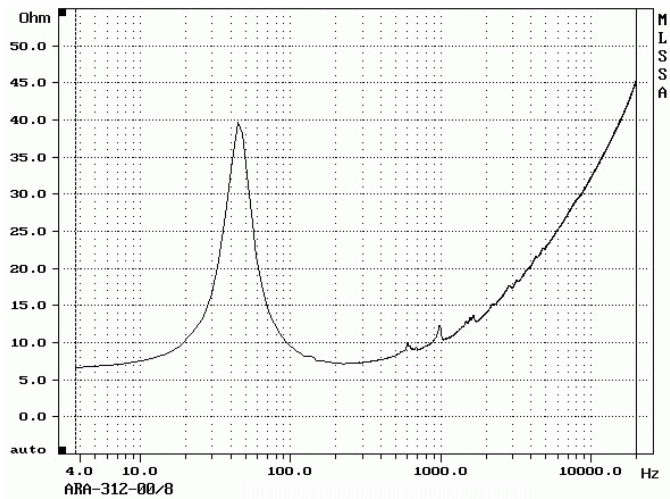
4) ±15 Hz

5) Peak - peak

Frequency response



Impedance Magnitude



Drawing

