



## Professional speaker ARA-389-00/4

The ARA-389-00/4 are professional direct-radiator electrodynamic loudspeaker, featuring by high sensitivity, large power handling capacity. The loudspeaker are designed for loudspeaker systems with high acoustic power, eg. for musical groups (solo and accompanying guitar, singing) for cinemas, theatres, big halls, etc.

### ACOUSTICAL DATA

Rated noise power <sup>1)</sup>	150	W
Short term maximum power <sup>2)</sup>	300	W
Rated impedance	4	Ohm
Resonance frequency $F_s$ <sup>4)</sup>	40.000	Hz
Rated frequency range	40 - 5000	Hz
Sensitivity <sup>3)</sup>	100	dB

### TS PARAMETERS

Acquired by MLSSA	D-0-10	
Effective piston area $S_d$	824.480	cm <sup>2</sup>
DC resistance of voice coil $R_e$	3.596	Ohm
Mechanical Q factor $Q_{ms}$	6.254	
Electrical Q factor $Q_{es}$	0.462	
Total Q factor $Q_{ts}$	0.430	
Voice coil inductance $L_e$	0.447	
Equivalent volume $V_{as}$	172.672	l
Moving mass (including air load) $M_{ms}$	65.015	g
Suspension compliance $C_{ms}$	180.860	uM/Newton
Force factor $Bl$	12.154	Tm
Maximum linear displacement $X_{max}$ <sup>5)</sup>	3	mm

### MECHANICAL DATA

Voice coil carrier material	živičný papír	
Voice coil diameter	100	mm
Winding height of voice coil	11	mm
Yoke diameter	99.2	mm
Air gap height	8	mm
Magnet external diameter	220	mm
Magnet internal diameter	110	mm
Magnet height	19	mm
Compensating magnet external diameter	-	mm
Compensating magnet internal diameter	-	mm
Compensating magnet height	-	mm
Weight	9.5	kg

1) CSN IEC 268-5, bassreflex box 70 dm<sup>3</sup>, 100 hours

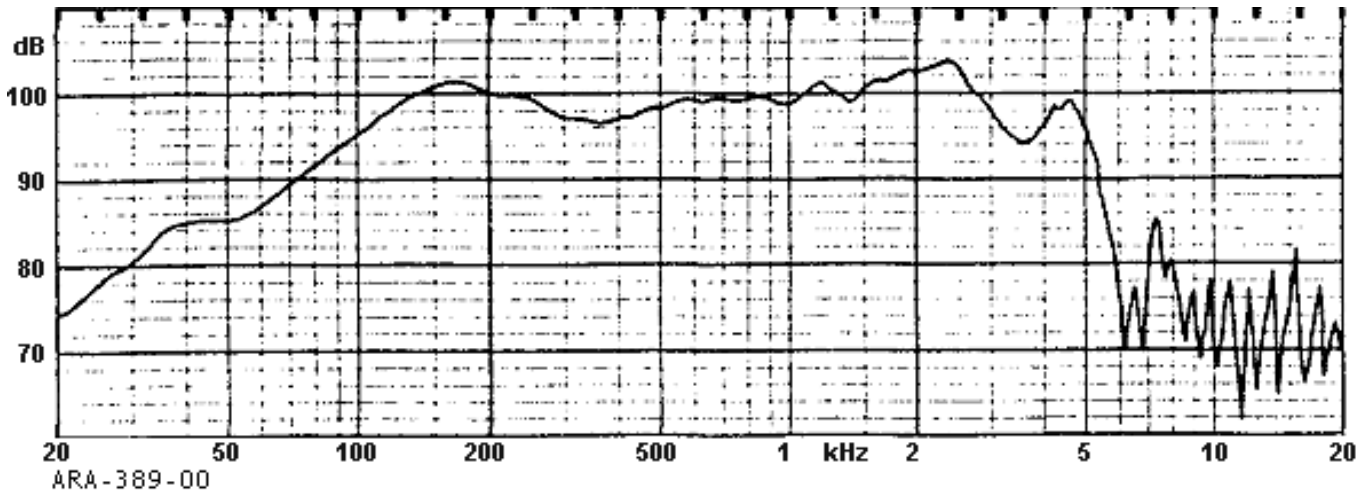
2) CSN IEC 268-5, bassreflex box 70 dm<sup>3</sup>, 2 min

3) Maxima and minima located on the edge of the tolerance field narrower than 1/3 of octave are tolerated

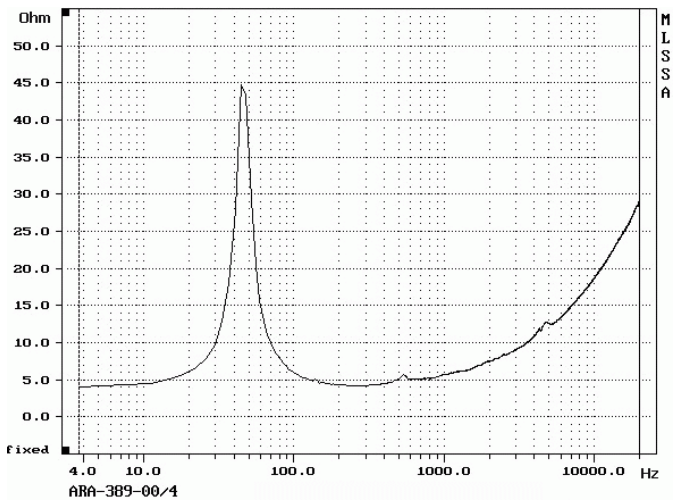
4) ±15 Hz

5) Peak - peak

Frequency response



Impedance Magnitude



Drawing

