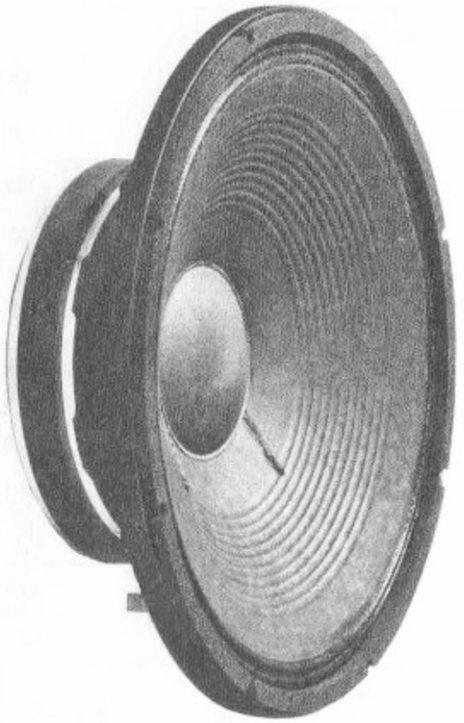
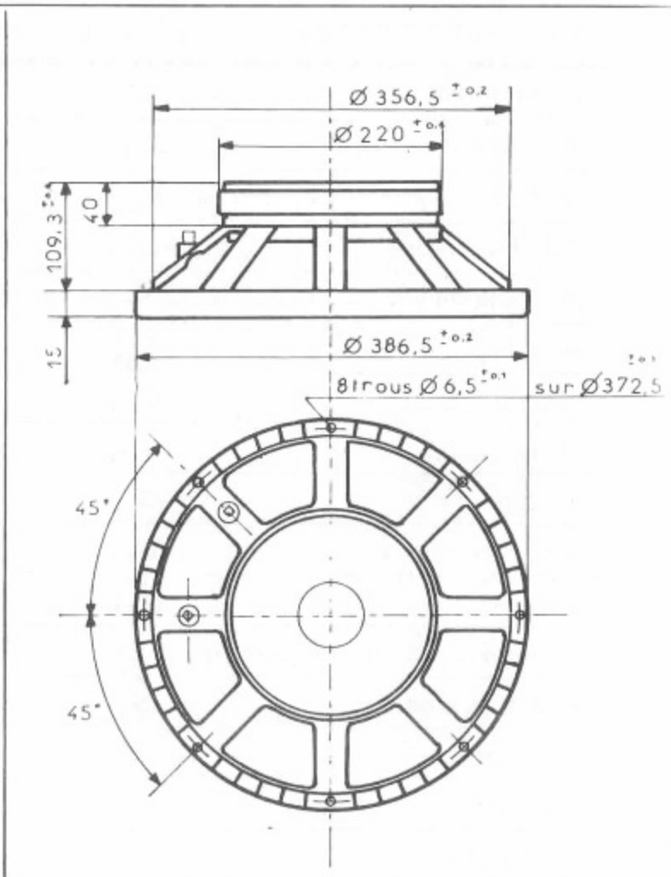
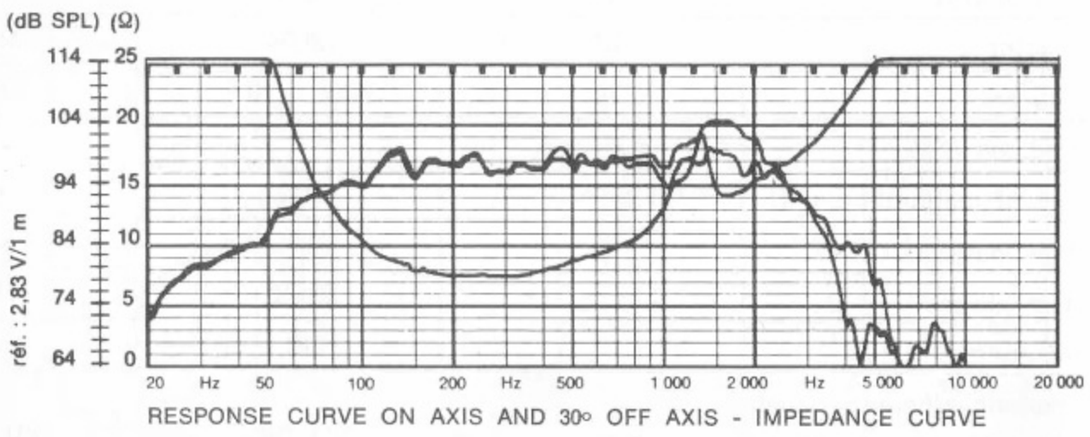
PR 38 S 100

38 cm - 15"

BASS







RESPONSE CURVE ON AXIS AND 30° OFF AXIS - IMPEDANCE CURVE

Bass speaker. Professional series. Zamac die cast chassis. Special pressed cone. 100 mm diameter voice coil on a nomex former. Magnet system 220 mm diameter and 1.5 Tesla. Very high efficiency 103 dB 1 W/1 metre and high power handling capacity.

PR 38 S 100

38 cm - 15"

TECHNICAL SPECIFICATION	SYMBOL	VALUE	UNIT
Nominal impedance	Z	8	Ω
Minimum impedance	Z_{min}	7,5 @ 300 Hz	Ω
DC resistance	R_{scc}	5,5	Ω
Voice coil inductance	L_{BM}	1430	µH
Resonant frequency	f_s	24 ± 4	Hz
Suspension compliance	C_{MS}	$3,9 \cdot 10^{-4}$	mN^{-1}
Mechanical Q factor	Q_{MS}	3,47	
Electrical Q factor	Q_{ES}	0,18	
Total Q factor	Q_{TS}	0,17	
Mechanical resistance	R_{MS}	5,42	$kg\ s^{-1}$
Moving mass	M_{MD}	$113,6 \cdot 10^{-3}$	kg
Emissive diameter of the diaphragm	D	0,335	m
Effective piston area	S_D	0,0880	m^2
Voice coil diameter	d	100	mm
Voice coil former		Nomex	
Voice coil length	h	14	mm
Voice coil layers	n	2	
Flux density	B	1,50	T
Flux in the Gap	Ø	$3,30 \cdot 10^{-3}$	Wb
Magnetic energy	W	2,95	Ws
Force factor	BL	26,04	NA^{-1}
Gap volume	V_E	$3,298 \cdot 10^{-6}$	m^3
Height of the Gap	H_E	7	mm
Diameter of magnet	Ø A	220	mm
Height of magnet	B	23	mm
Weight of magnet		3,140	kg
Mass of speaker		10	kg
Characteristic efficiency level : 1 W, pink noise, weighted	η	103 (PR)	dB SPL
Nominal power handling		200	W
Acceleration factor	Γ	229	$ms^{-2}\ A^{-1}$