55-1195

SCIENTIFIC DESIGN SOFTWARE
Driver Parameters From Measurement Data

Date: 04-15-1993
Data for driver: 200-3401M01

Entered Data as Follows:

Entered driver DC resistance (Re)	6.80 ohms	
Entered driver resonance frequency (Fs)	39.00 hertz	
Entered driver maximum impedance at Fs	23.30 ohms	
Entered driver F1 frequency	24.00 hertz at	12.60 ohms
Entered driver F2 frequency	59.00 hertz at	12.60 ohms
Calculated Square root of F1*F2	37.60 hertz	
Calculated error factor	3.60 percent	
Compliance calculated by ADDED MASS method		
Entered added mass	10.00 grams	
Entered driver new resonance frequency	31.00 hertz	
Entered driver piston diameter	164.00 mm	
Entered driver magnet gap depth	5.00 mm	
Entered driver voice coil length	12.60 mm	

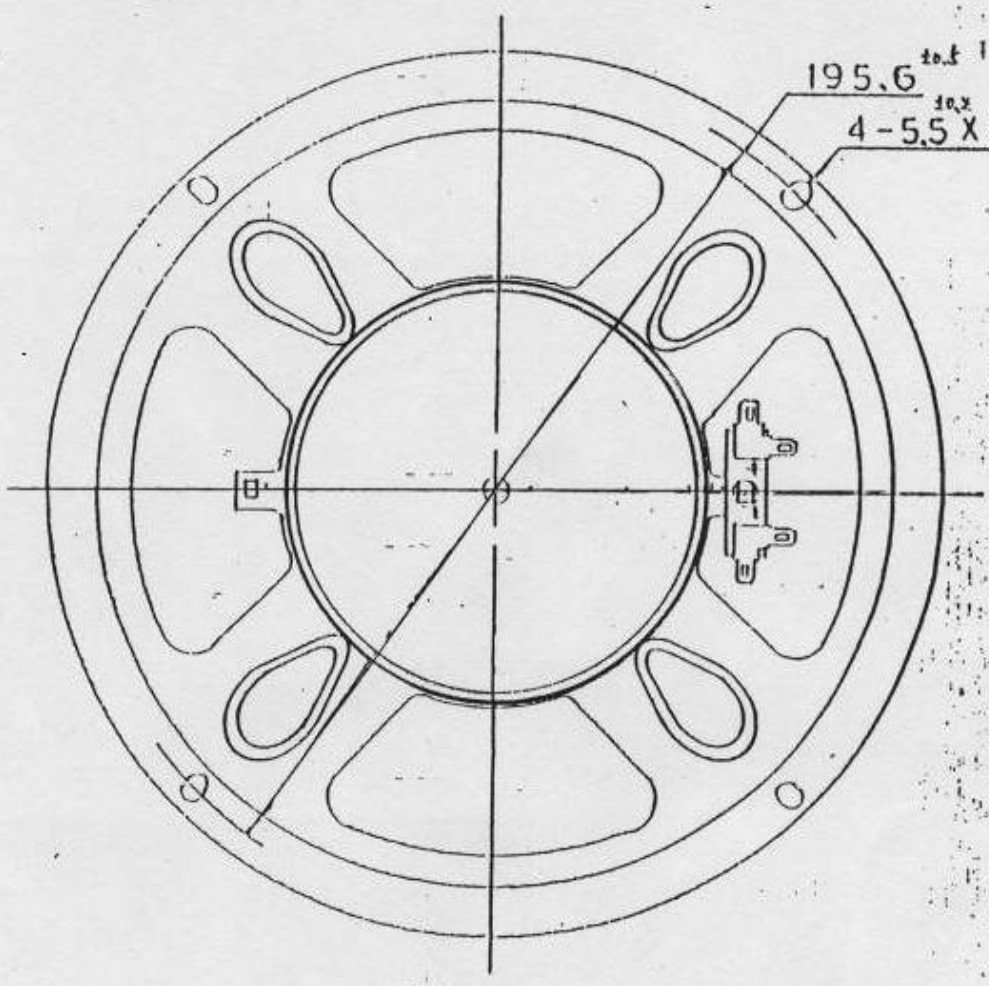
Calculated Thiele/Small Parameters:

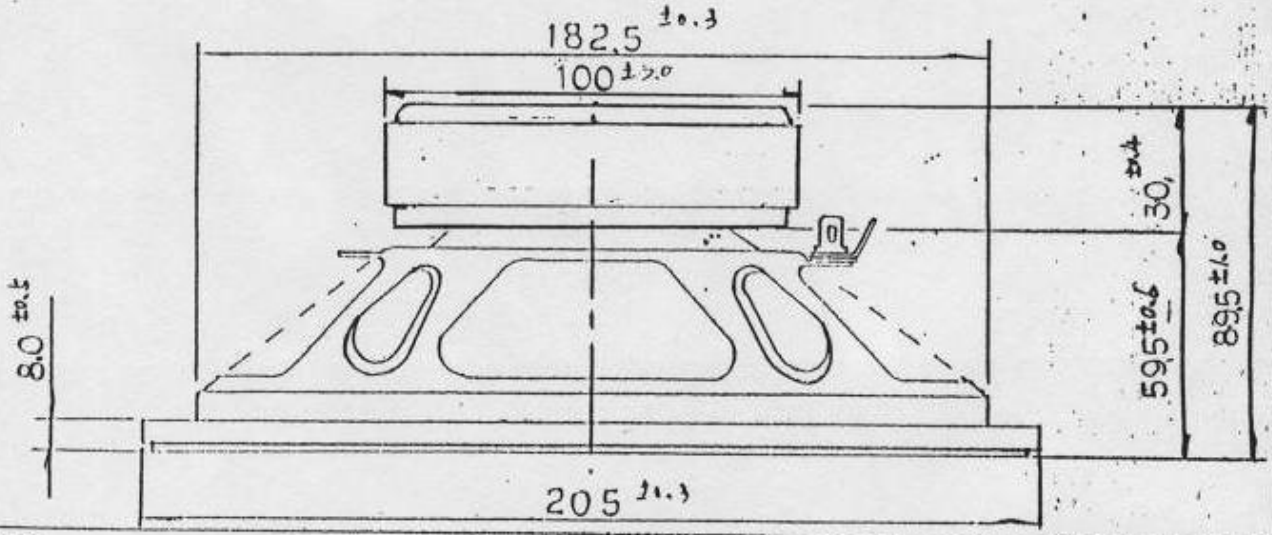
Free Air Resonance (Fs)=SQR(F1*F2)	37.60 hertz
Qts	0.5804
Qes	0.8195
Qms	1.99
Equivalent acoustic compliance (Vas)	52.90 liters
Piston area (Sd)	0.0211 square meters
DC resistance (Re)	6.80 ohms
Volume displacement (Vd)	80.27 ccm
Linear displacement (Xmax)	3.80 mm
Power handling (Pe)	TO BE ENTERED
Coil Inductance (Le)	TO BE ENTERED
Reference Efficiency (Ref Eff)	0.33 percent
Efficiency Bandwidth Product (EBP)	45.88 hertz

Other Calculated Data:

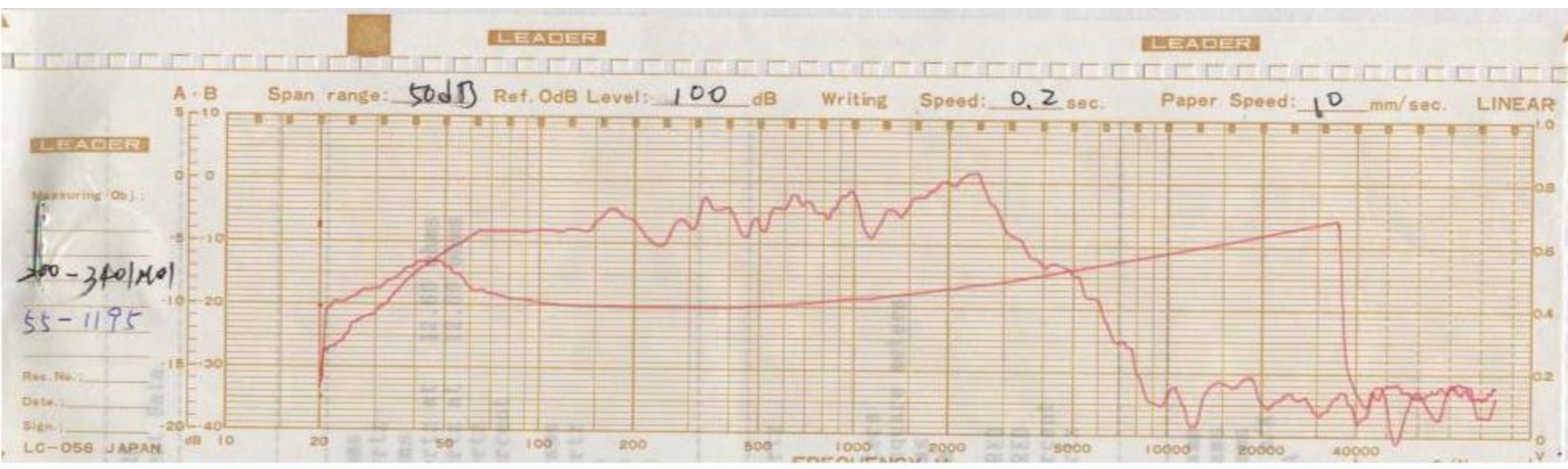
Moving Mass of Diaphragm only (Mmd)	19.48 grams
Moving Mass of Diaphragm & Air Load (Mms)	21.23 grams
Mass of Air load on diaphragm (Ma)	1.74 grams
Compliance (Cms)	0.00085 m/N
BL product (BL)	6.45 N/A
Sensitivity (SPL 1w/1m)	87.18 dB

END OF REPORT





APVD. Mark			MATERIAL	SCALE 1/8 QUANTITY
CHK. Gau			FINISH	TOLERANCE ANGLE
DSGN			TITLE	8" SPEAKER
DRAW Tmh	1 初版發行	'97.11.16 Tmh		


LEADER
LEADER
LEADER
A·B
Span range: 50dB
Ref. 0dB Level: 100 dB
Writing Speed: 0.2 sec.
Paper Speed: 10 mm/sec.
LINEAR
Measuring Obj.:
100-340/M01
55-1195
Rec. No.:
Date.:
Sign.:
LC-058 JAPAN
dB
FREQUENCY