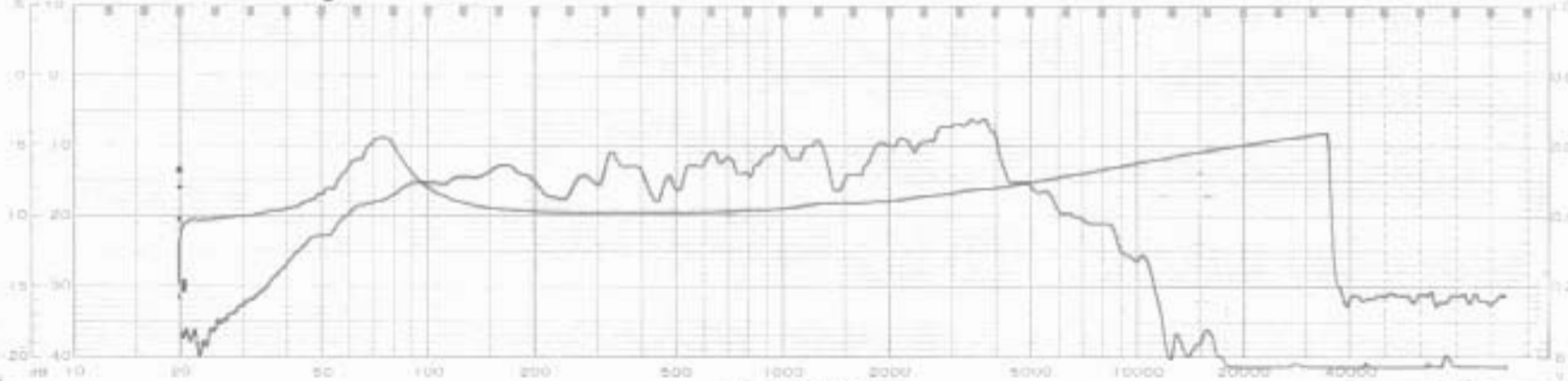


LEADER

LEADER

A B Span range: 50dB Ref. 0dB Level: 100 dB Writing Speed: 0.2 sec Paper Speed: 10 mm/sec LINEAR



LEADER

RECORDING UNIT

Rec. No. _____

Date _____

Size _____

LC-056 JAPAN

S-N

SCIENTIFIC DESIGN SOFTWARE
Driver Parameters From Measurement Data

Entered Data as Follows:

Entered driver DC resistance (Re)	7.20 ohms
Entered driver resonance frequency (Fs)	65.00 hertz
Entered driver maximum impedance at Fs	34.80 ohms
Entered driver F1 frequency	48.00 hertz at 15.80 ohms
Entered driver F2 frequency	86.00 hertz at 15.80 ohms
Calculated Square root of F1*F2	64.20 hertz
Calculated error factor	1.20 percent
Compliance calculated by ADDED MASS method	
Entered added mass	10.00 grams
Entered driver new resonance frequency	40.00 hertz
Entered driver piston diameter	107.00 mm
Entered driver magnet gap depth	4.00 mm
Entered driver voice coil length	8.00 mm

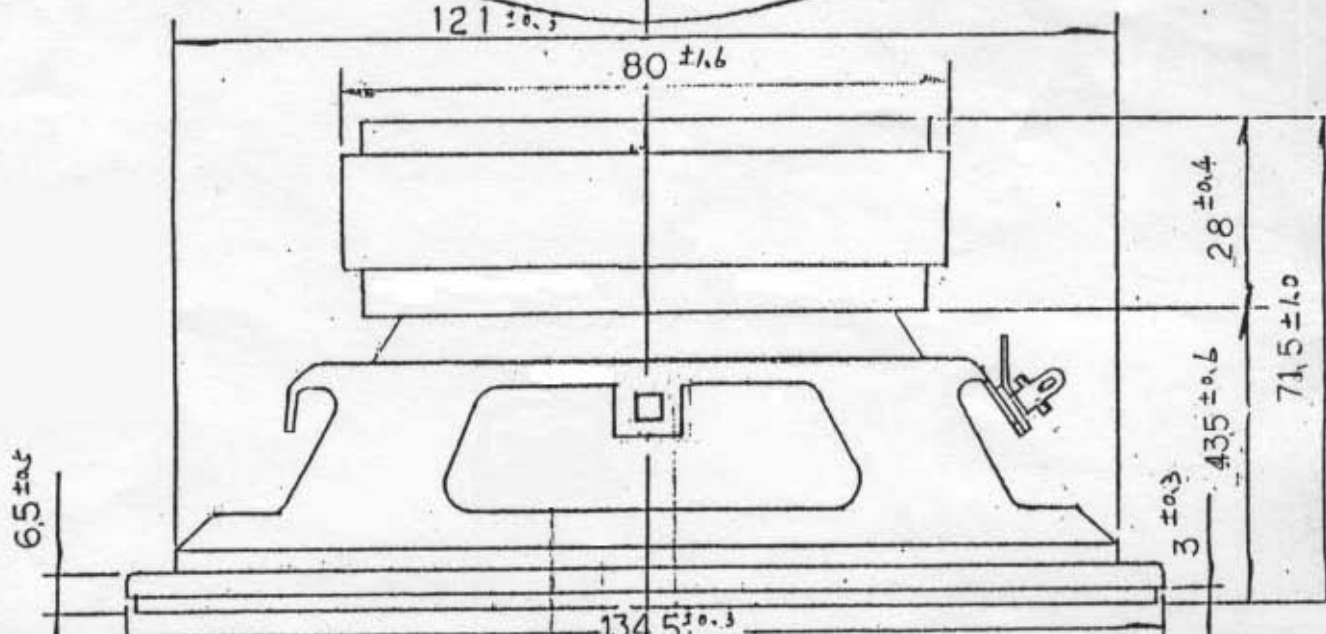
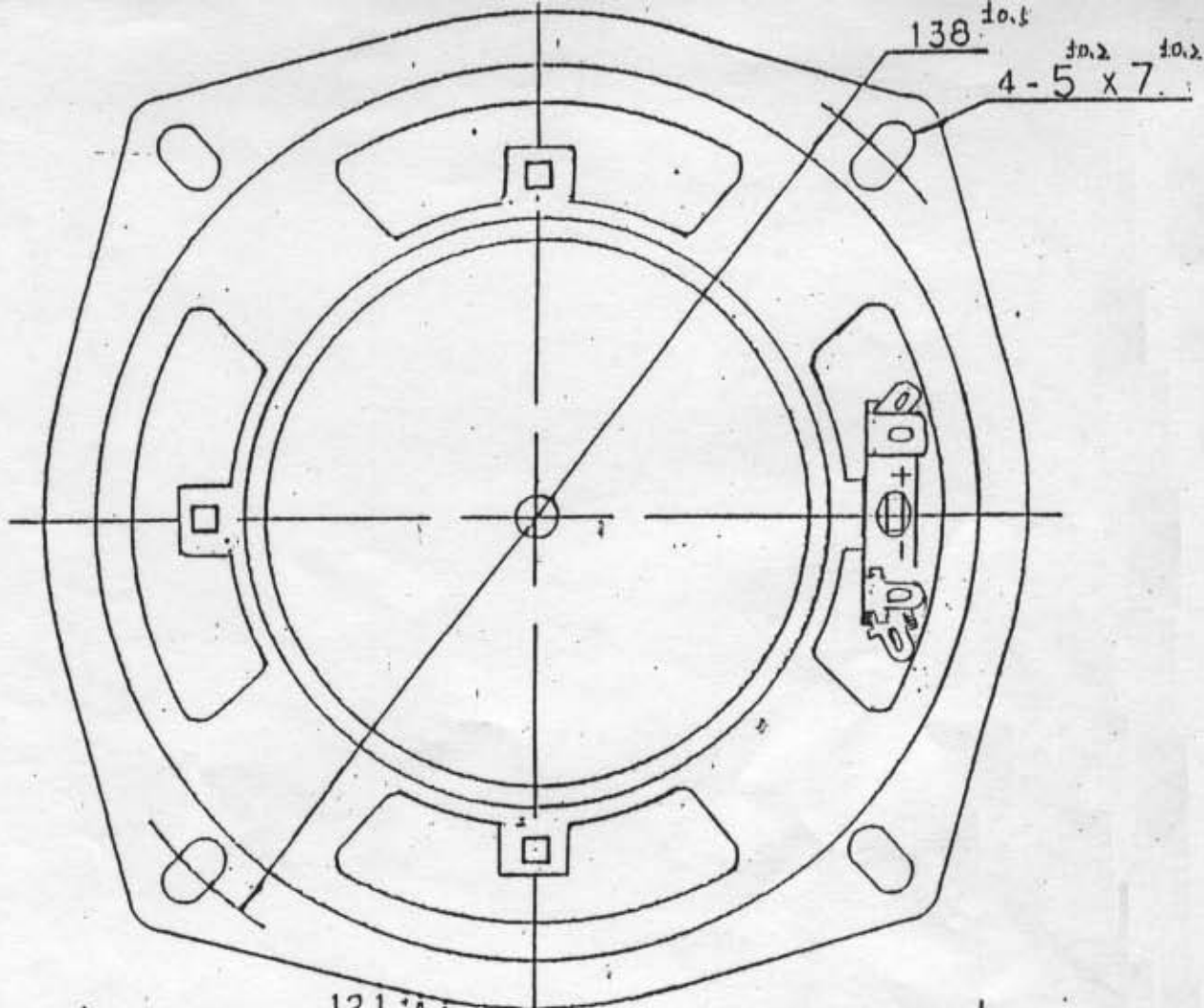
Calculated Thiele/Small Parameters:

Free Air Resonance (Fs)=SQR(F1*F2)	64.20 hertz
Qts	0.7685
Qes	0.9689
Qms	3.71
Equivalent acoustic compliance (Vas)	11.00 liters
Piston area (Sd)	0.0090 square meters
DC resistance (Re)	7.20 ohms
Volume displacement (Vd)	17.98 ccm
Linear displacement (Xmax)	2.00 mm
Coil Inductance (Le)	0.46 mH
Reference Efficiency (Ref Eff)	0.29 percent
Efficiency Bandwidth Product (EBP)	66.26 hertz

Other Calculated Data:

Moving Mass of Diaphragm only (Mmd)	5.86 grams
Moving Mass of Diaphragm & Air Load (Mms)	6.35 grams
Mass of Air load on diaphragm (Ma)	0.48 grams
Compliance (Cms)	0.00097 m/N
BL product (BL)	4.36 N/A
Sensitivity (SPL 1w/1m)	86.60 dB

END OF REPORT



MATERIAL		SCALE 1/1	QUANTITY
FINISH		TOLERANCE	ANGLE
TITLE		5 1/4" SPEAKER	
DRAWING NO. 380			

MCM Audio Select
Model 55-1205