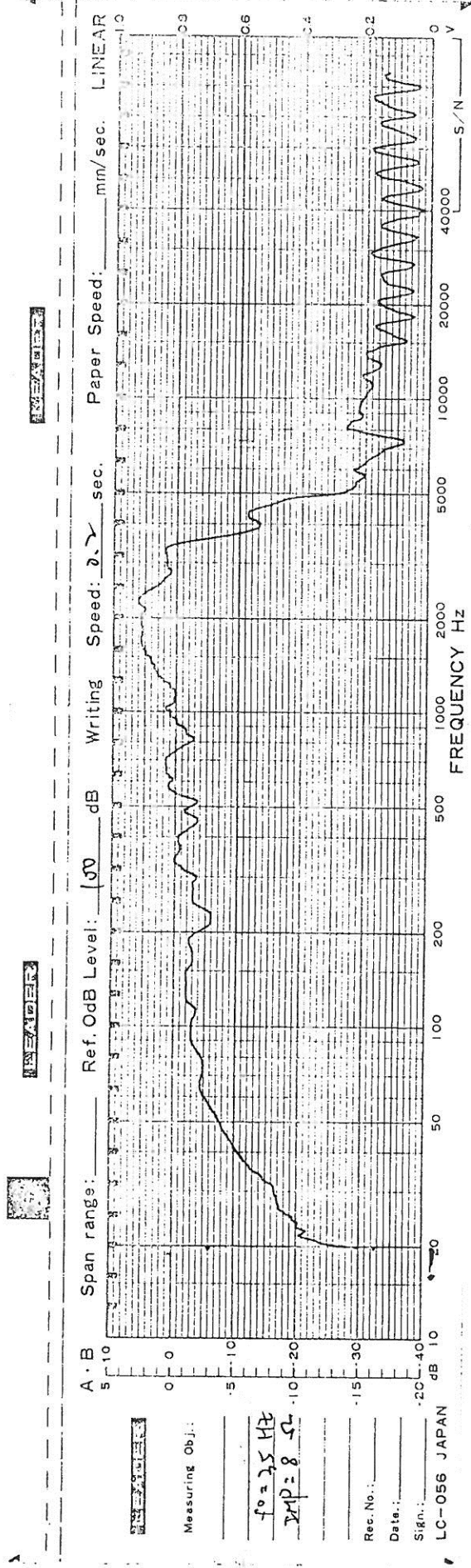


| ITEMS | SPECIFICATIONS |
|-----------------------------|---|
| 1 DIMENSIONS | 304 MM (12 NCH) |
| 2 IMPEDANCE | 8 ± 1.2 OHM(0.2 KHz 1.0 V) |
| 3 INPUT | RATED - W , MAX 80 W |
| 4 LOWEST RESONANT FREQUENCY | 35 ± 7 Hz (1.0 V) |
| 5 SOUND PRESSURE LEVEL | 97 ± 2 dB/W (2.83 V , 0.5 M) AVERAGE AT 0.15 , 0.2 , 0.25 , 0.3 KHz |
| 6 EFFECTIVE FREQUENCY RANGE | FO ~ 4000 Hz |
| 7 DISTORTION FACTOR | 5.0 % MAX (AT 0.2 KHz , 10 W , 0.5 M) |
| 8 FLUX DENSITY | — ± — GAUSS |
| 9 TOTAL FLUX | — ± — MAXWELL |
| 10 POLARITY | WHEN A POSITIVE DC CURRENT IS APPLIED TO THE TERMINAL MARKED + , THE DIAPHRAGM SHALL MOVE FORWARD . |
| 11 SINE WAVE TEST | 10 V |
| 12 MAGNET | 120 · 60 · 20 MM(818 GRAMS) (29.9 HOZ) · · MM(GRAMS)(OZ) |
| 13 WEIGHT | 2380 GRAMS (83.95 OZ) |
| 14 DROP TEST | THE SPEAKER SHALL BE DROPPED ALONG A FLAT PLATE 15° INCLINED FROM THE VERTICAL. THEN LET THE MAGNETIC FIELD PART IMPACT THE MAHOGANY BLOCK AT THE BOTTOM OF THE SLIDE. NO ANY STRUCTURAL OR ACOUSTIC DEFECT SHALL OCCUR AS A RESULT OF THIS TEST. THE DROP DISTANCE IS 1 METER. |
| 15 LIFE TEST | 80 W 96 H EIA WHITE NOISE |
| 16 HUMIDITY TEST | 43 °C 92 2 % RH 96 H |
| 17 TEMPERATURE TEST | 70 °C 96 H |



Span range: _____ Ref. OdB Level: 00 dB Writing Speed: 2.5 sec. Paper Speed: _____ mm/sec. LINEAR

Measuring Obj.:

$f_0 = 25 \text{ Hz}$
 $Z_{LP} = 8 \text{ } \Omega$

Rec. No.:

Date.:

Sign.:

LC-056 JAPAN

SCIENTIFIC DESIGN SOFTWARE
Driver Parameters From Measurement Data

Date: 12-10-1993
Data for driver:

Model 55-1255
MCM Audio Select
Page 3 of 4

Entered Data as Follows:

| | |
|--|---------------------------|
| Entered driver DC resistance (Re) | 7.10 ohms |
| Entered driver resonance frequency (Fs) | 36.00 hertz |
| Entered driver maximum impedance at Fs | 26.30 ohms |
| Entered driver F1 frequency | 23.00 hertz at 13.70 ohms |
| Entered driver F2 frequency | 57.00 hertz at 13.70 ohms |
| Calculated Square root of F1*F2 | 36.20 hertz |
| Calculated error factor | 0.60 percent |
| Compliance calculated by ADDED MASS method | |
| Entered added mass | 20.00 grams |
| Entered driver new resonance frequency | 29.00 hertz |
| Entered driver piston diameter | 255.00 mm |
| Entered driver magnet gap depth | 6.00 mm |
| Entered driver voice coil length | 13.00 mm |

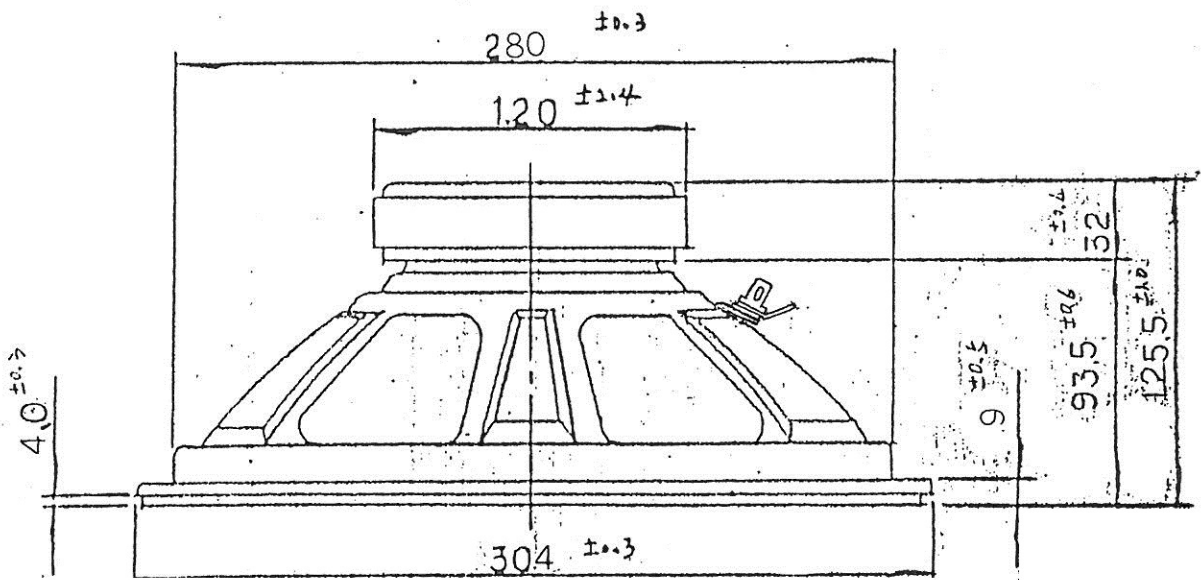
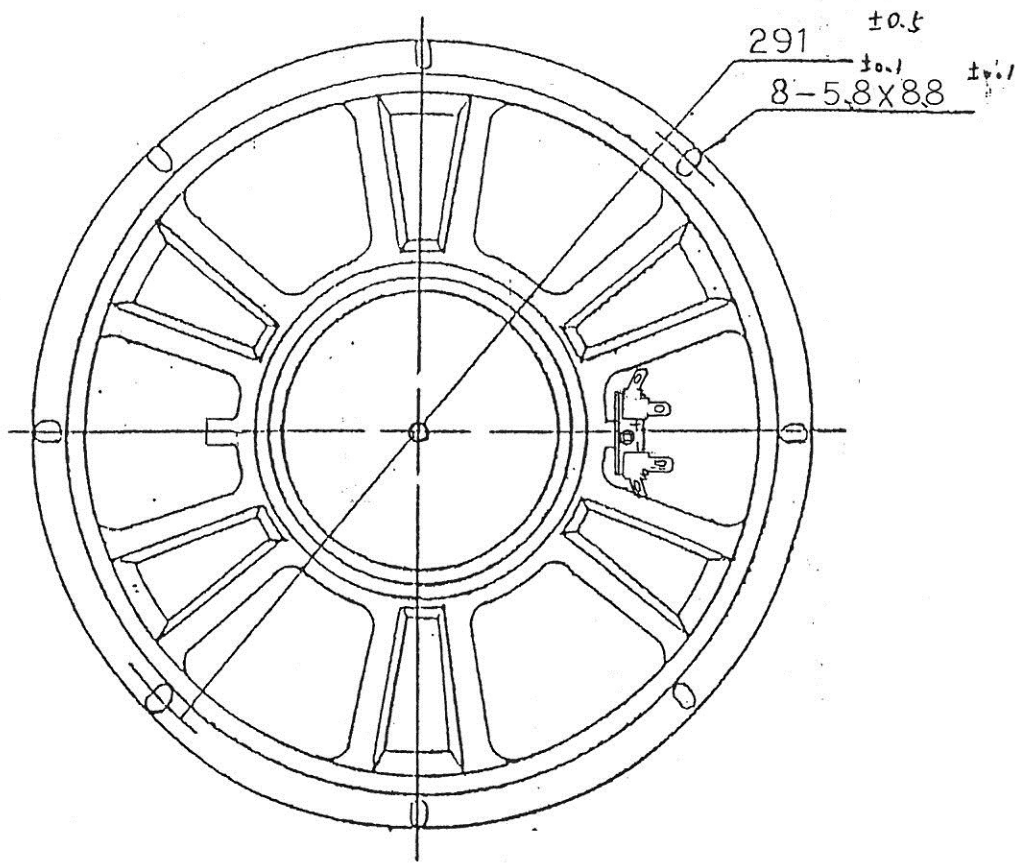
Calculated Thiele/Small Parameters:

| | |
|--------------------------------------|----------------------|
| Free Air Resonance (Fs)=SQR(F1*F2) | 36.20 hertz |
| Qts | 0.5532 |
| Qes | 0.7578 |
| Qms | 2.05 |
| Equivalent acoustic compliance (Vas) | 197.62 liters |
| Piston area (Sd) | 0.0511 square meters |
| DC resistance (Re) | 7.10 ohms |
| Volume displacement (Vd) | 178.75 ccm |
| Linear displacement (Xmax) | 3.50 mm |
| Power handling (Pe) | 70W/100W RMS/program |
| Coil Inductance (Le) | 0.73mH |
| Reference Efficiency (Ref Eff) | 1.19 percent |
| Efficiency Bandwidth Product (EBP) | 47.77 hertz |

Other Calculated Data:

| | |
|---|-------------|
| Moving Mass of Diaphragm only (Mmd) | 29.28 grams |
| Moving Mass of Diaphragm & Air Load (Mms) | 35.83 grams |
| Mass of Air load on diaphragm (Ma) | 6.55 grams |
| Compliance (Cms) | 0.00054 m/N |
| BL product (BL) | 8.74 N/A |
| Sensitivity (SPL 1w/1m) | 92.75 dB |

END OF REPORT



| | | |
|--|-------------------|-----------|
| | MATERIAL | SCALE 3 |
| | FINISH | TOLERANCE |
| | TITLE 12" SPEAKER | |

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