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		FINISH	TOLERANCE ± 0.15	
		TITLE	10" SPEAKER	
初 研 修 訂		23.25.20	MCM #55-1300	
REVISION		REV.	DATE	

SCIENTIFIC DESIGN SOFTWARE
Driver Parameters From Measurement Data

Entered Data as Follows:

Entered driver DC resistance (Re) 6.90 ohms
Entered driver resonance frequency (Fs) 44.00 hertz
Entered driver maximum impedance at Fs 37.40 ohms
Entered driver F1 frequency 35.00 hertz at 16.10 ohms
Entered driver F2 frequency 57.00 hertz at 16.10 ohms
Calculated Square root of F1*F2 44.70 hertz
Calculated error factor 1.80 percent
Compliance calculated by ADDED MASS method
Entered added mass 20.00 grams
Entered driver new resonance frequency 35.00 hertz
Entered driver piston diameter 213.00 mm
Entered driver magnet gap depth 6.00 mm
Entered driver voice coil length 12.70 mm

Calculated Thiele/Small Parameters:

Free Air Resonance (Fs)=SQR(F1*F2) 44.70 hertz
Qts 0.8727
Qes 1.0702
Qms 4.73
Equivalent acoustic compliance (Vas) 71.34 liters
Piston area (Sd) 0.0356 square meters
DC resistance (Re) 6.90 ohms
Volume displacement (Vd) 119.37 cc
Linear displacement (Xmax) 3.35 mm
Power handling (Pe) TO BE ENTERED
Coil Inductance (Le) TO BE ENTERED
Reference Efficiency (Ref Eff) 0.57 percent
Efficiency Bandwidth Product (EBP) 41.77 hertz

Other Calculated Data:

Moving Mass of Diaphragm only (Mmd) 27.87 grams
Moving Mass of Diaphragm & Air Load (Mms) 31.69 grams
Mass of Air load on diaphragm (Ma) 3.82 grams
Compliance (Cms) 0.00040 m/N
BL product (BL) 7.58 N/A
Sensitivity (SPL 1w/1m) 89.57 dB

END OF REPORT

LEADER

LEADER

A-B Span range: 50 Ref. OdB Level: 100 dB Writing Speed: 0.5 sec. Paper Speed: 10 mm/sec. LINEAR

REMARKS

Specimen No.

Sample No.

Test No.

Ref. No.

Date

Sign.

LC-056 JAPAN

