

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	3.80 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	184.00 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

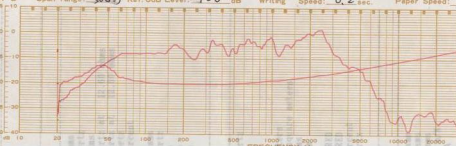
LEADER

LEADER

A-B Span range: 50dB Ref. OdB Level: 100 dB Writing Speed: 0.2 sec. Paper Speed: 1

Measuring (dB)
100-340/1001
55-1195

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