

M2

SPEAKER PARAMETERS

Re	5 Ω
a (dia)	34 cm
BL	18.90 T·m
Cms	129.854703 μm/N
Mms	135 g
Qms	17.227588
Xmax	7 mm
Pe	500 W
Znom	4 Ω

HIGH FREQUENCY IMPEDANCE

Le	0 mH
L2	0 mH
R2	0 Ω

CALCULATED PARAMETERS

Fo	38.0 Hz
Fi	36.0 Hz
Qes	0.451
Qts	0.44
SPLref	94.4 dB
Sd	907.92 cm²
Vas	150.909 liter
Cas	1070.417 mm³/N
Mm1	15.514 g
Mmd	119.486 g
No	0.879 %
EBP	84

MISCELLANEOUS

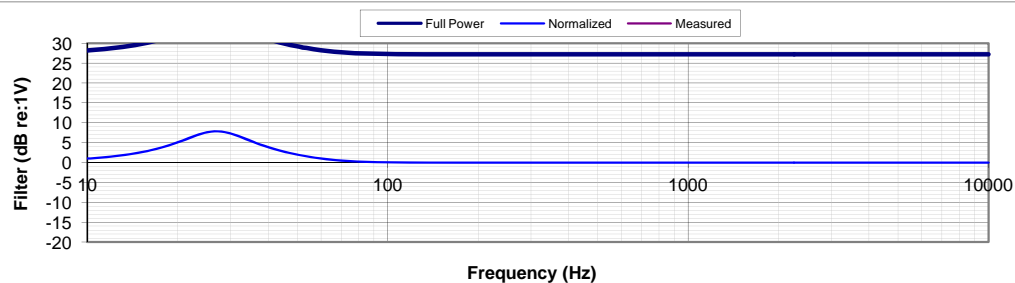
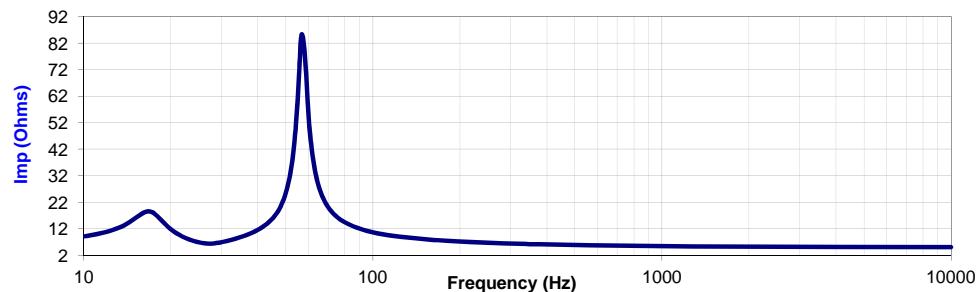
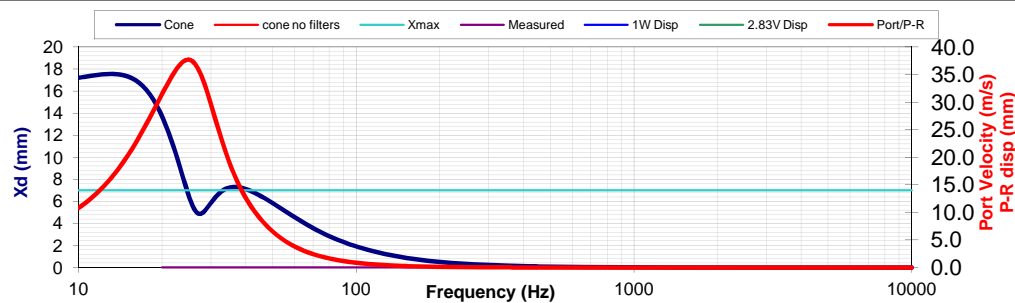
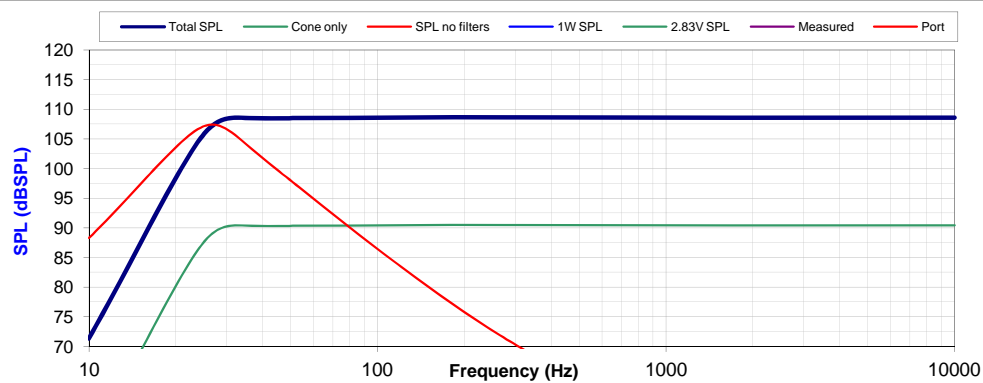
Temp	25 °C
Pressure	1 ATM
VC Temp	25 °C
Rho_air	1.18 kg/m³
C_air	345 m/s

Enter (2) for 2π and (4) for 4π

4 [1] ---> 12.57

Comments:

Expect between 5 and 22Wrms (depending on 10dB versus 16dB crest factor), and 2kW peaks



AMPLIFIER - MIC

Max V per Pe	44.72 Vrms
Input Voltage	23.00 Vrms
Distance	1 m
Limit Vrms to Filter's TFI_{pk}	<input type="checkbox"/>
ENCLOSURE PORTED	
Sealed, Ported, P-R	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>
Vb	130000.0 cm³
Fb	27 Hz
Qb	10

PORT/P-R

Qp	7
Dv	10.00 cm
Dpr	10 cm
Cmpr	1200 μm/N
Lv	17.7 cm
Dv(min)	13.1 cm
Sdv	78.5 cm²
Ql	4.1
Mmpr	N/A g
Fo (PR)	N/A Hz

FILTERS

Filter Type	Freq	Q	Gain
<input type="checkbox"/> 1st HP	50		
<input type="checkbox"/> 1st LP	150		
<input type="checkbox"/> 2nd HP #1	27.5	2.25	
<input type="checkbox"/> 2nd HP #2	20	0.707	
<input type="checkbox"/> 2nd LP #1	130	0.8	
<input type="checkbox"/> 2nd LP #2	130	0.8	
<input type="checkbox"/> 2nd BP	130	0.8	
<input checked="" type="checkbox"/> Parametric	72.5	0.9	-0.6
<input checked="" type="checkbox"/> Parametric	27	1.9	8
<input type="checkbox"/> Parametric	100	1	1.5

OUTPUT METRICS

Alpha	1.16	h	0.75
Filter peak dB	7.9	Filter -3dB	#N/A
Max Vin	56.9437097	Peak Vin	80.51840545
Amp Supply V	90.0648949	Amp VA	405.200851
-10dB	19.7 Hz		
-6dB	21.9 Hz		
-3dB	24.4 Hz		
-2dB	25.8 Hz		
-1dB	27.2 Hz		
20Hz output	98.8 dB with 500W at 1m in 4pi		
SPL peak	0.0 dB		
SPLmax	108.6 dB with 500W at 1m in 4pi		
2.83V SPL	90.4 dB with 2.83V at 1m in 4pi		
Xmax % of φ	5.2 %		