

Woofer parameters

Fs	109.4	Hz
Qts	0.58	
Qes	0.62	0.377465
Vas	4.8	Liters
Re	3	Ohms
Dia	14	cm
Xmax	4.3	mm
Pe_max	140	Watts
Le	0.001	Henrys
P_input	51.7	Watts@8ohms
V_in_peak	28.76	Volts
P_dissipation	137.9	Watts
Box Parameters		
Ql	14.0	
Qb	28.0	
Qp	28.0	
Vb	10	15.90683
Fb	87	77.51321
# ports	1	
Vent Diameter	7.62	cm
Vent Length	12.53	cm
Sp	0.004560	m^2
	45.6036731188	
alpha	0.480	
h	0.795	
Qcomb	7.000	

1/Ql	0.0714	
1/Qb	0.0357	
1/Qp	0.0357	
1/QbQl	0.0026	
1/QlQp	0.0026	
1/QbQp	0.0013	
1/QlQbQp	0.0001	
B5	1.0026	1.0026
B4	1.864	0.246754
B3	2.313	2.129839
B2	1.220	0.197838
B1	0.634	0.634031

Woofer Calculated parameters

Sd	0.01539	m^2
Cms	0.000144	m/N
Mdt	0.0147	kg
Bl	6.99	T*m
no	96.17	dB/2.83V
no	91.91	dB/1W
Qms	8.990	
Rms	1.122	
Cone Sag	0.02	mm
Vd	6.619E-05	
Res	43.5	ohms
Lces	7.039347	mH
Cmes	300.65833	uF
*If sealed		
lossless fc	133.1	
losslessQt	0.71	
Damped Qt	1.11	
fs/Qes	176.45	
Vent Diameter	3.00	in
Vent Length	4.93	in

Box Dimensions

Cube	21.544347	cm
	8.482	in

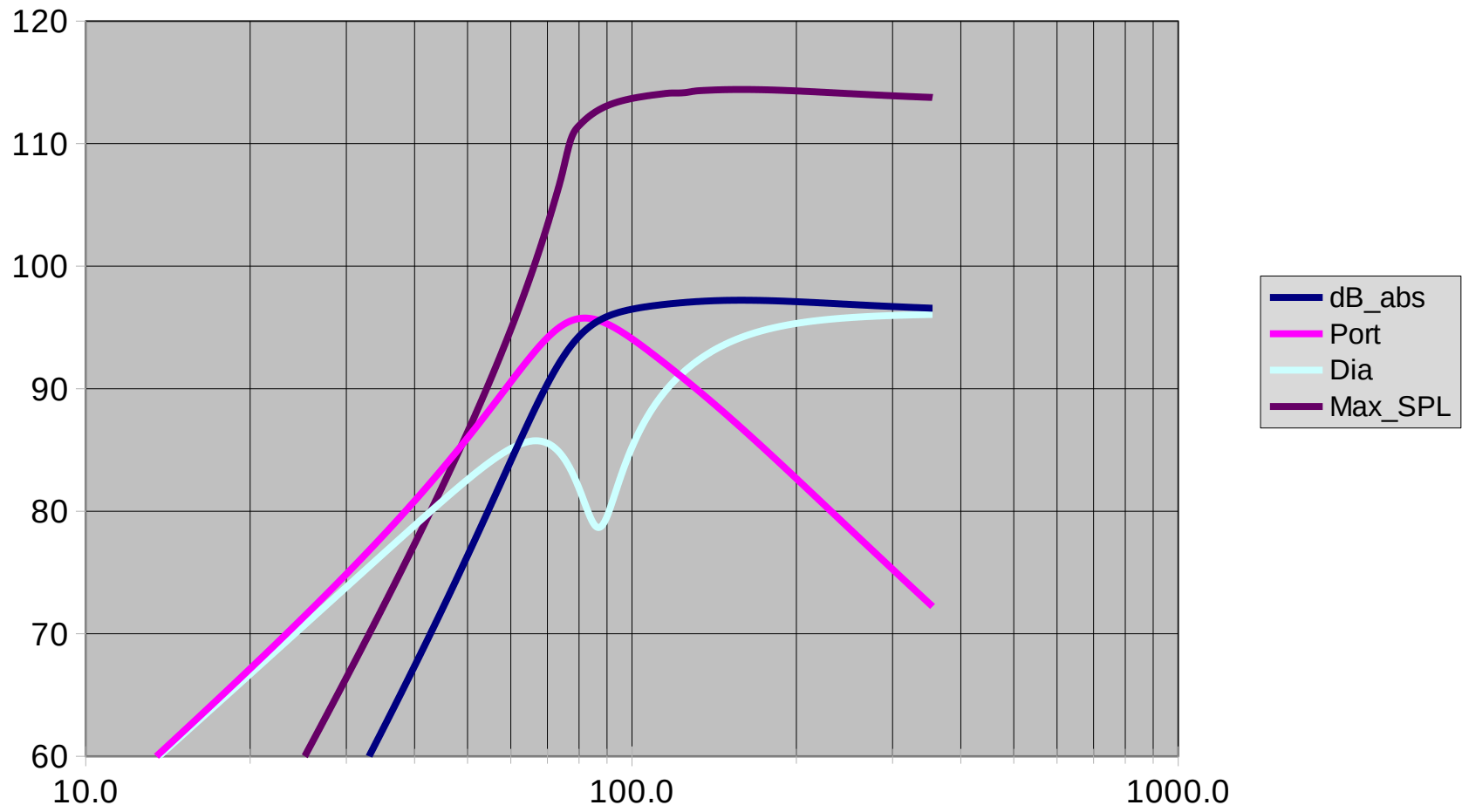
Vent sizer calculation

Splmax	112.59105	
upmax	17	
Spmin	69.150538	
Dvmin	9.3832404	cm
	3.6941891	inch

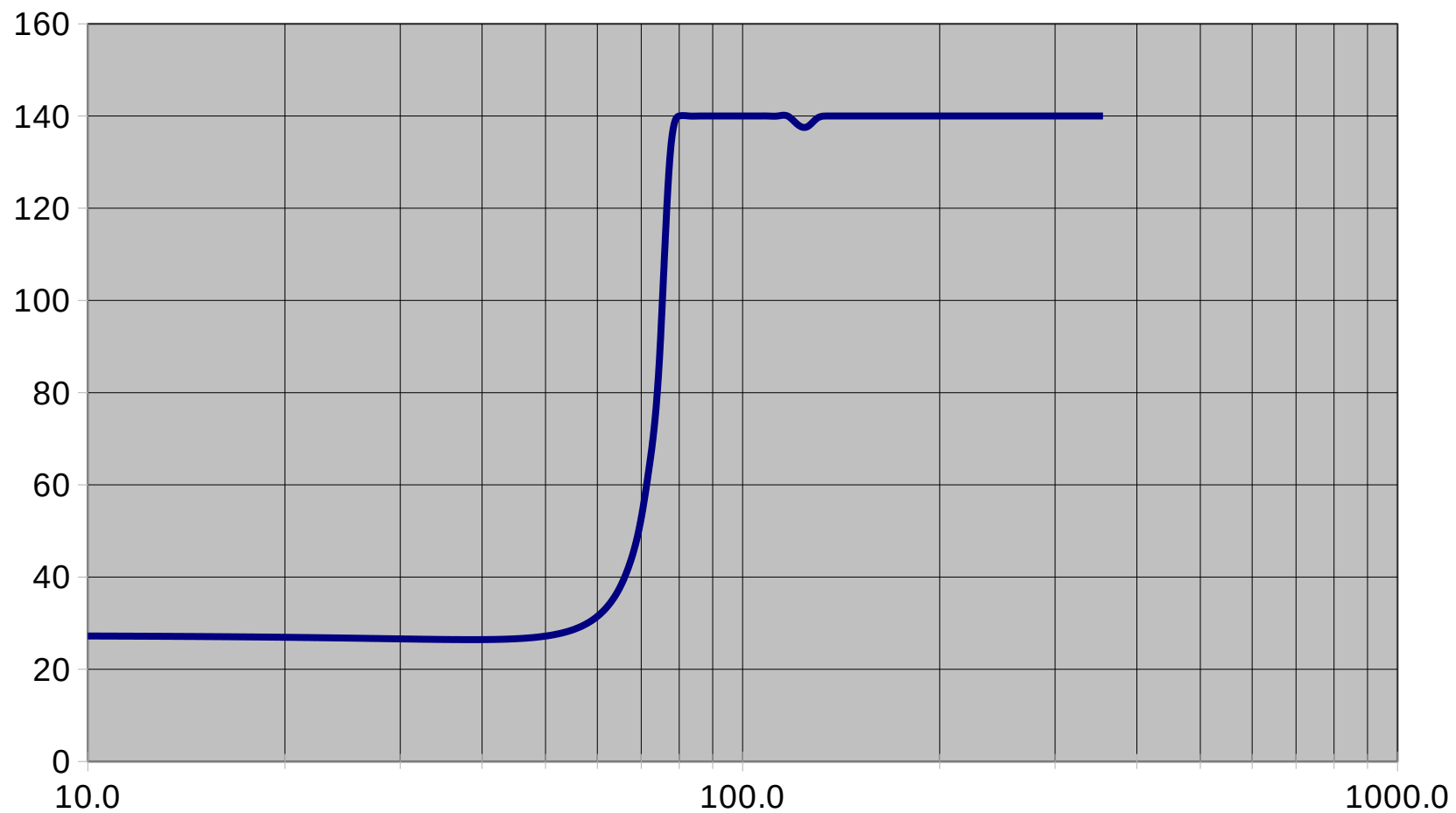
Random port area formula from interne

Dvmin	5.407835	cm
Dvmin	2.1290689	inch

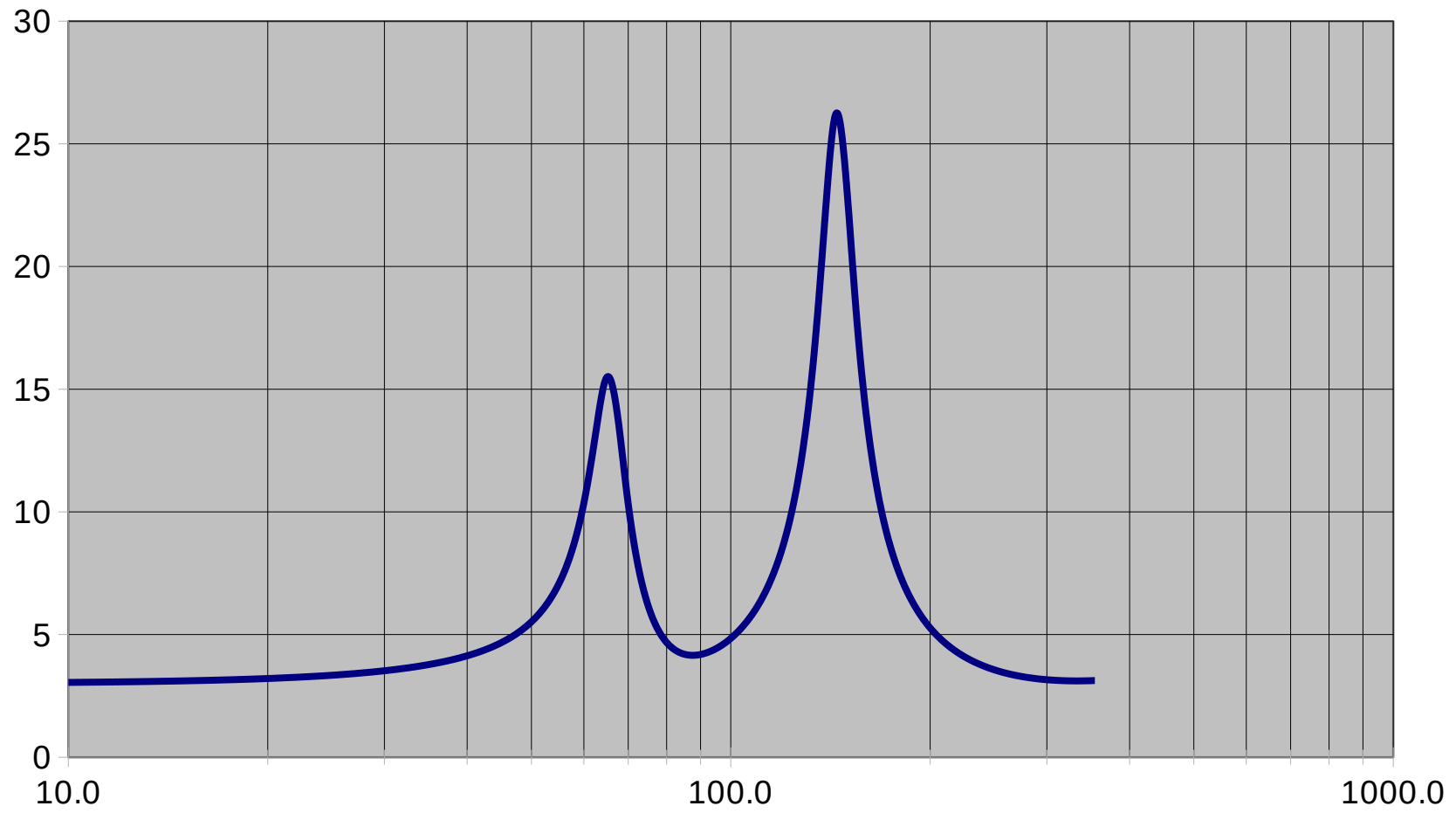
SPL Max and 2.83V [dB]



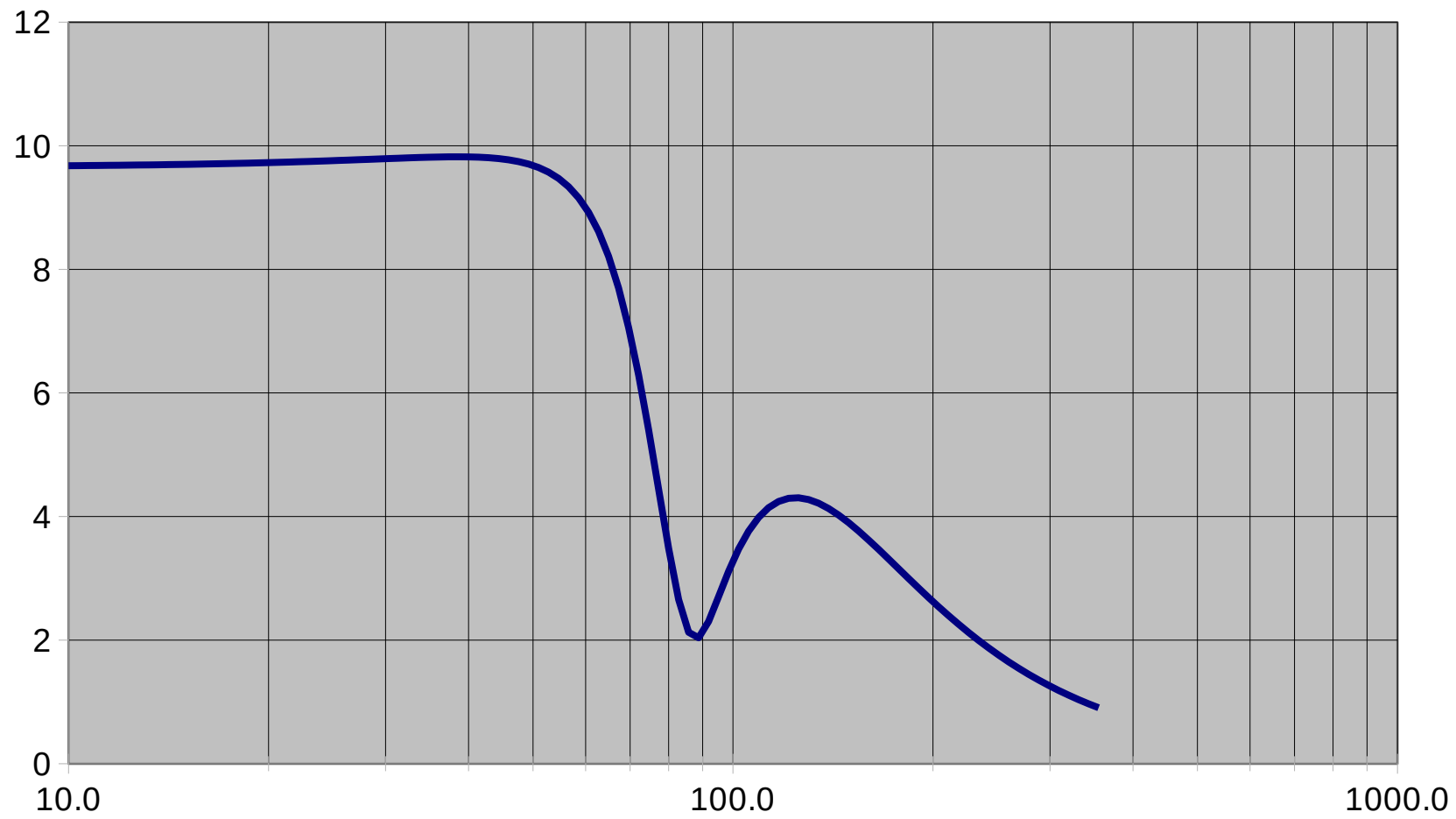
Excursion Limited Power [Watts]



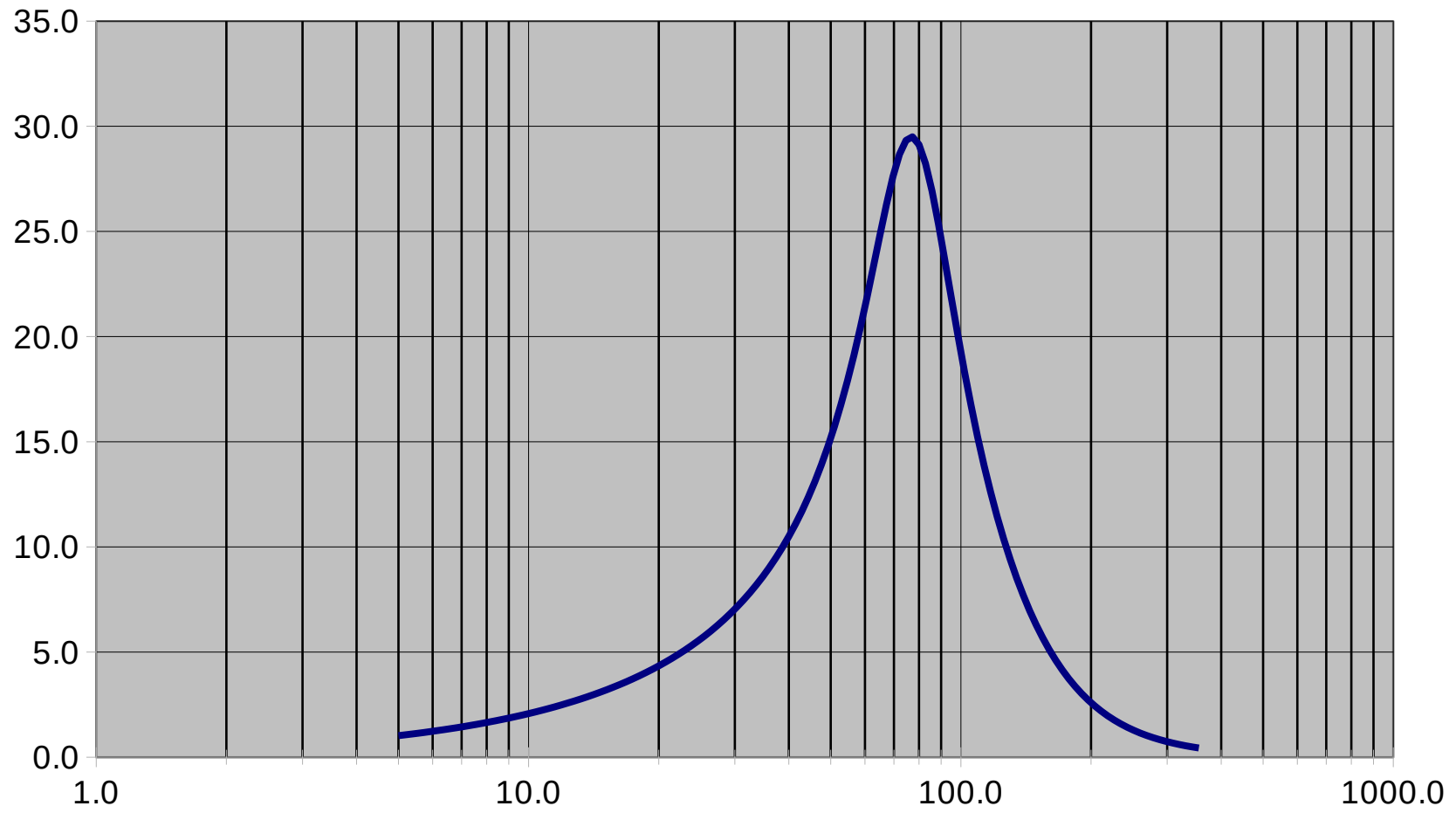
Impedance [Ohms]



Excursion [mm]



Port Velocity [m/s]



Group Delay [s], Phase [degrees]

