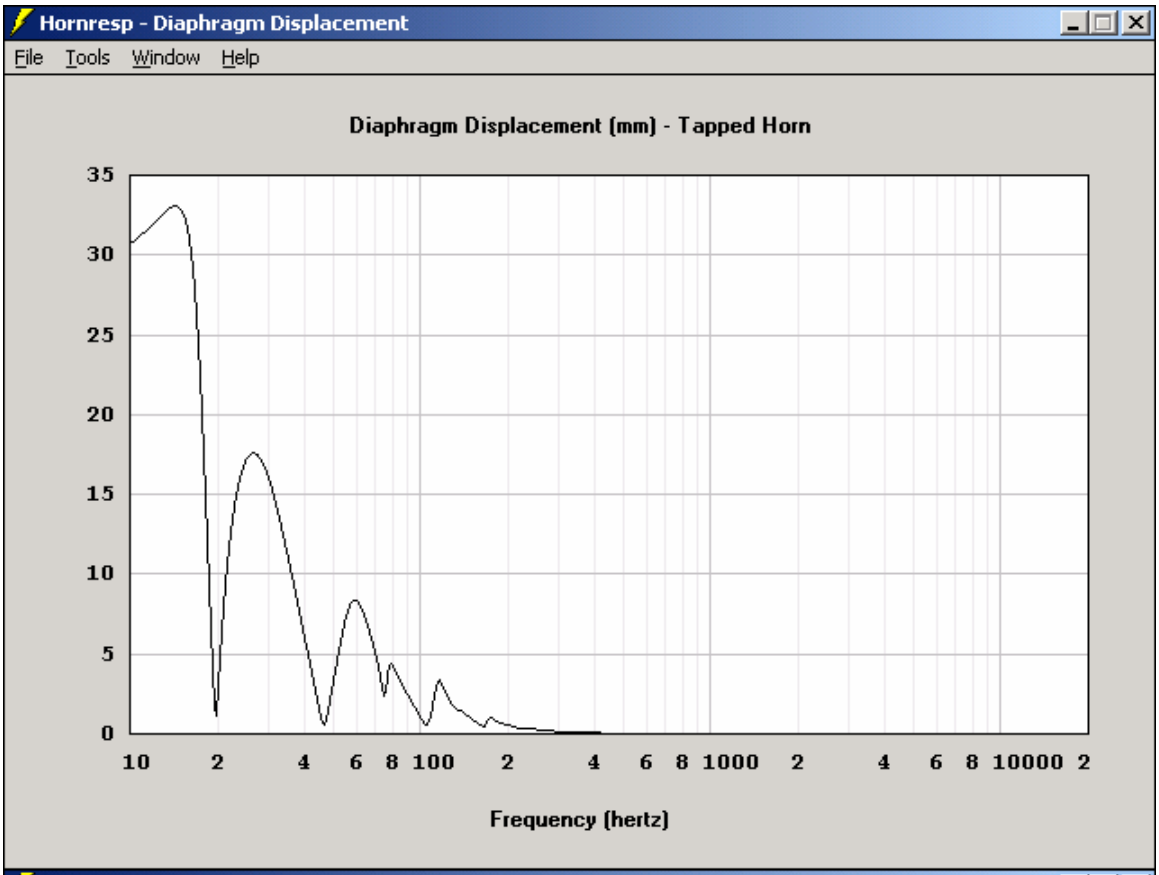
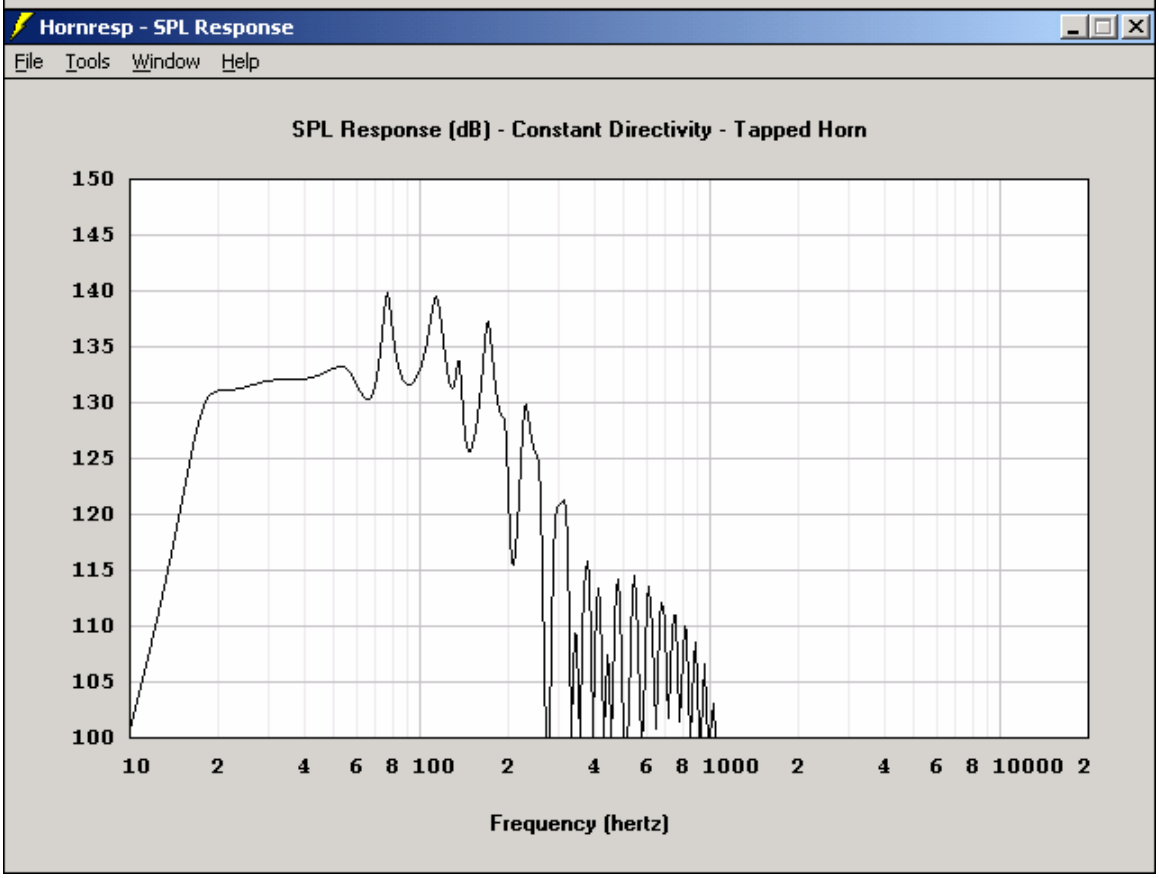
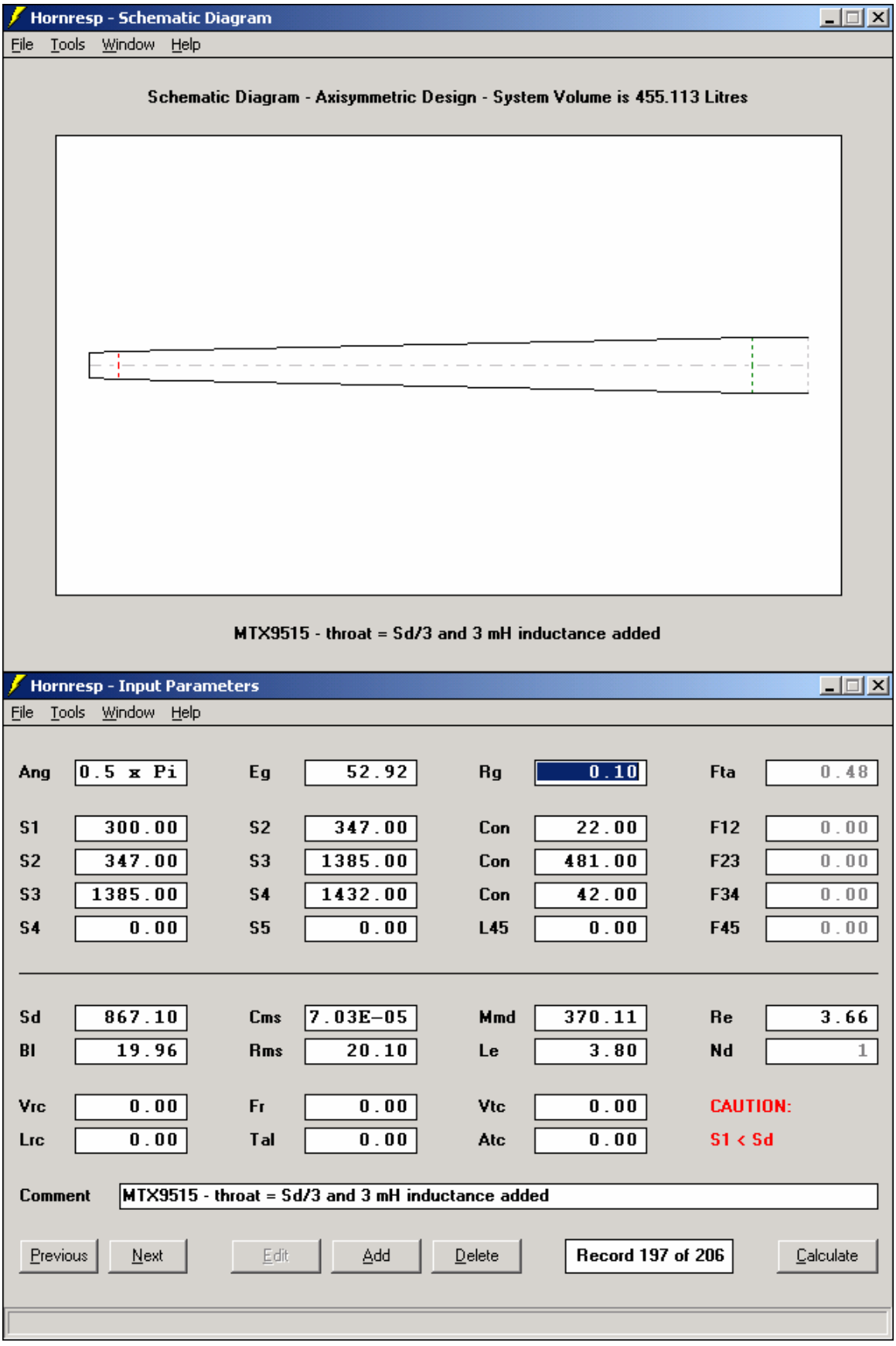
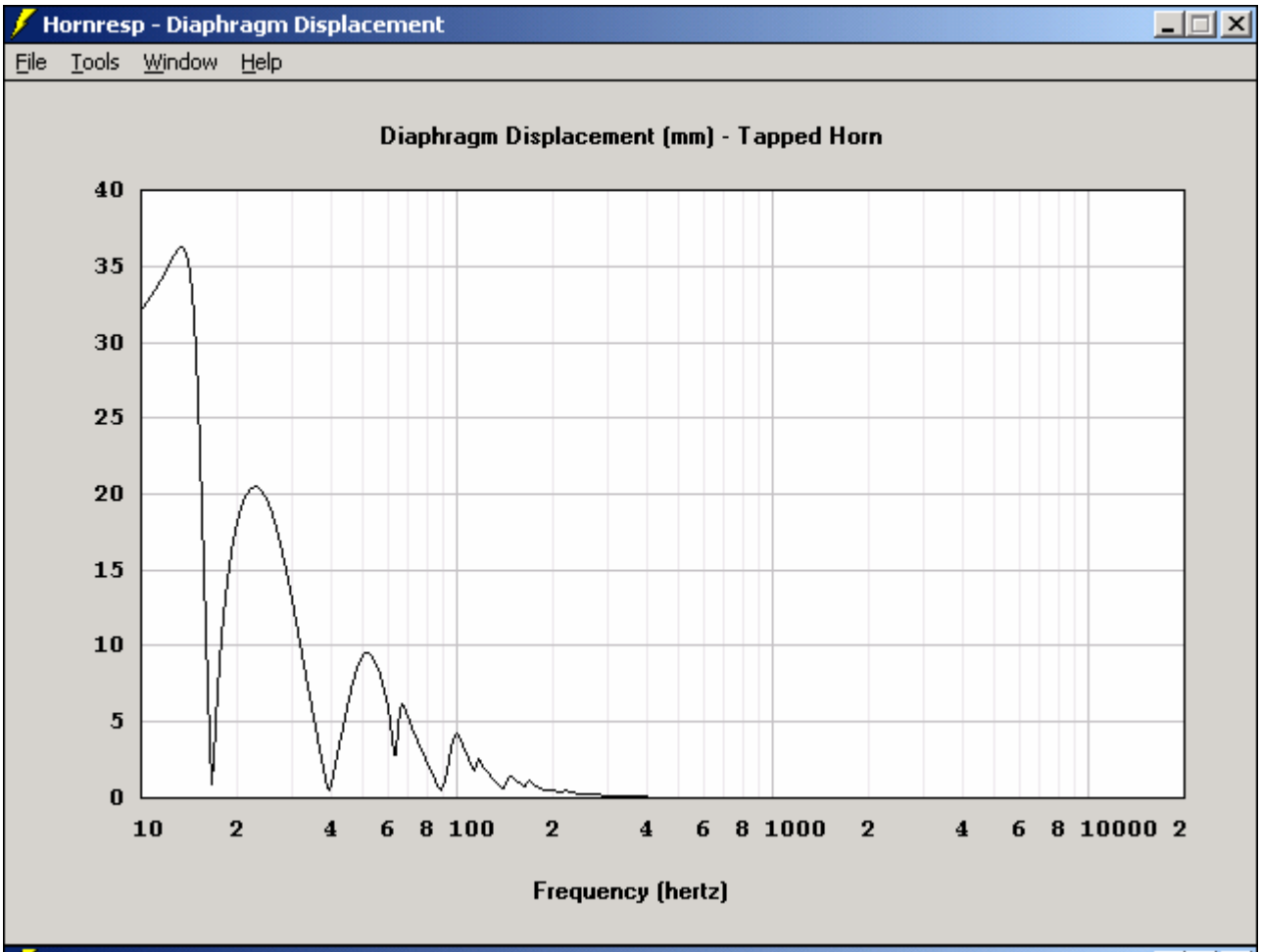
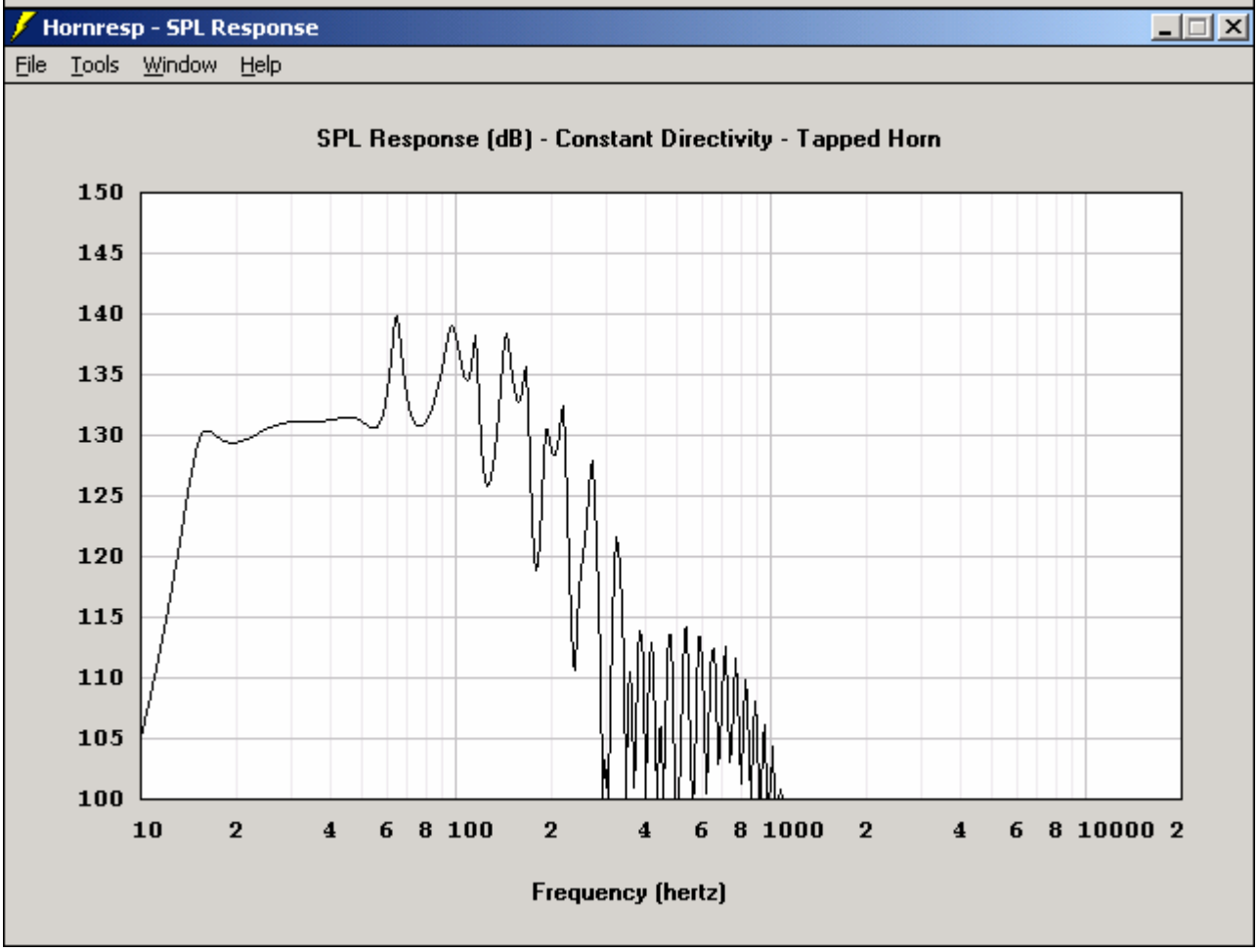

Hornresp - Diaphragm Displacement
File Tools Window Help
Diaphragm Displacement (mm) - Tapped Horn
35
30
25
20
15
10
5
0
10 2 4 6 8 100 2 4 6 8 1000 2 4 6 8 10000 2
Frequency (hertz)


Hornresp - SPL Response
File Tools Window Help
SPL Response (dB) - Constant Directivity - Tapped Horn
150
145
140
135
130
125
120
115
110
105
100
10 2 4 6 8 100 2 4 6 8 1000 2 4 6 8 10000 2
Frequency (hertz)



Assuming the x-max is about 18mm, it would take 700watts to get there!
I played around with the design some more and increased segment S3-S4 to get more extension, but it increased the TH some. See below:


Hornresp - Diaphragm Displacement
File Tools Window Help
Diaphragm Displacement (mm) - Tapped Horn
40
35
30
25
20
15
10
5
0
10 2 4 6 8 100 2 4 6 8 1000 2 4 6 8 10000 2
Frequency (hertz)


Hornresp - SPL Response
File Tools Window Help
SPL Response (dB) - Constant Directivity - Tapped Horn
150
145
140
135
130
125
120
115
110
105
100
10 2 4 6 8 100 2 4 6 8 1000 2 4 6 8 10000 2
Frequency (hertz)

Hornresp - Input Parameters

File Tools Window Help

Ang	0.5 x Pi	Eg	52.92	Rg	0.10	Fta	0.25
S1	300.00	S2	342.00	Con	22.00	F12	0.00
S2	342.00	S3	1390.00	Con	556.00	F23	0.00
S3	1390.00	S4	1432.00	Con	72.00	F34	0.00
S4	0.00	S5	0.00	L45	0.00	F45	0.00
Sd	867.10	Cms	7.03E-05	Mmd	370.11	Re	3.66
Bl	19.96	Rms	20.10	Le	3.80	Nd	1
Vrc	0.00	Fr	0.00	Vtc	0.00		
Lrc	0.00	Tal	0.00	Atc	0.00		

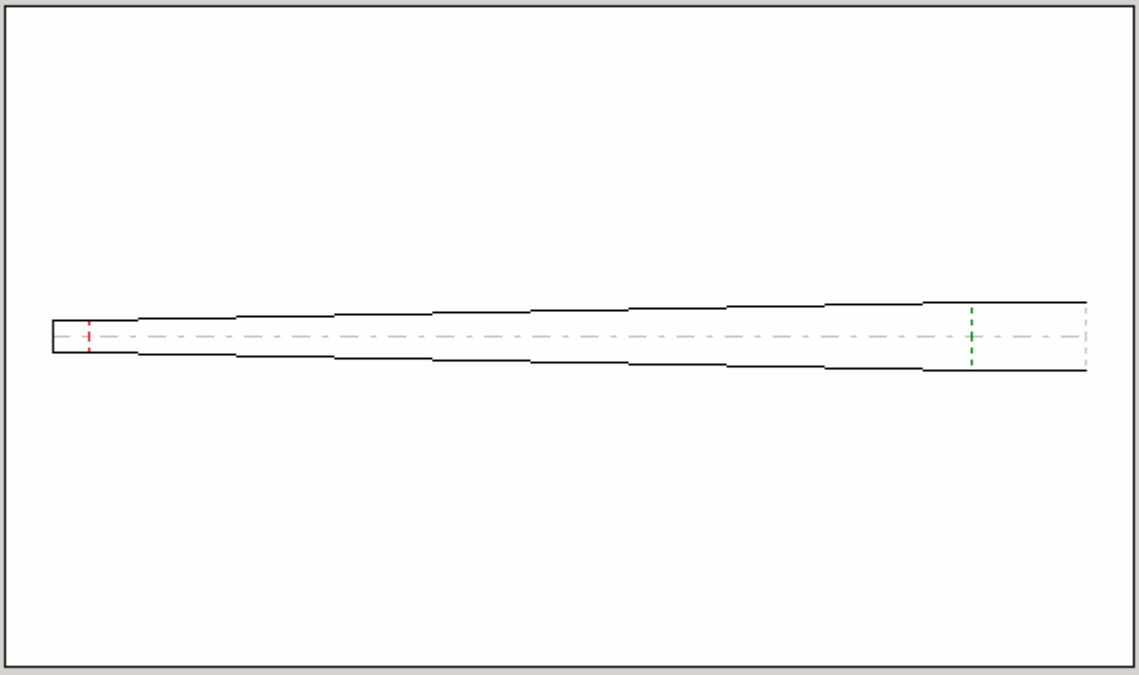
Comment: NEW RECORD - NEW RECORD - MTX9515 - throat = Sd/3 and 3 mH inductance added

Previous | Next | Edit | Add | Delete | Record 206 of 206 | Calculate

Hornresp - Schematic Diagram

File Tools Window Help

Schematic Diagram - Axisymmetric Design - System Volume is 557.426 Litres



NEW RECORD - NEW RECORD - MTX9515 - throat = Sd/3 and 3 mH inductance added