

E15-350N

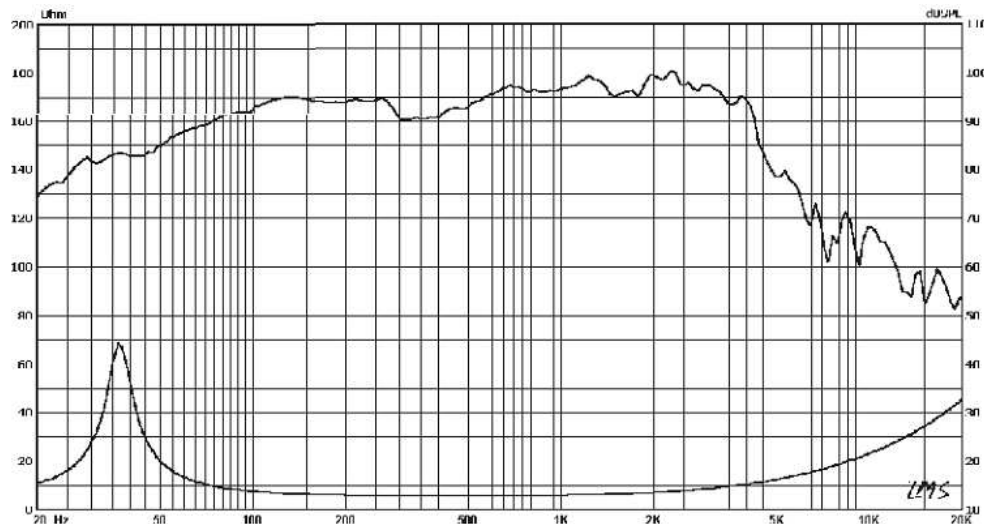
MID & BASS TRANSDUCER

GENERAL SPECIFICATIONS

Nominal Diameter	: 380	mm	15	Inch
Rated Impedance	: 8	Ohm		
Operating Bandwidth	: 30	Hz	4000	Hz
Power Handling Capacity	: 300	W (rms)		
Sensitivity 2.83 V, 1M	: 98	dB		
Effective Piston Diameter	: 329	mm	13.0	Inch
Voice Coil Diameter	: 63.70	mm	2.5	Inch

THIELE - SMALL PARAMETERS

Resonance Frequency	Fs	: 37.1	Hz
DC Resistance	Re	: 5.6	ohm
Mechanical Q Factor	Qms	: 5.524	
Electrical Q Factor	Qes	: 0.489	
Total Q Factor	Qts	: 0.449	
BL Factor	BL	: 13.94	TM
Effective Moving Mass	Mms	: 72.72	gr
Equivalent Gas Air Load	Vas	: 261.90	liters
Effective Piston Area	Sd	: 0.0850	m²
Voice - Coil Inductance @ 1KHz	Le	: 0.35	mH
Half-Space Efficiency	Eff	: 2.66	%
Airgap Height	Hag	: 8.0	mm
Voice Coil Height	Hvc	: 15.0	mm
Voice Coil Over-Hung	Xmax	: 3.5	mm



PHT-409N

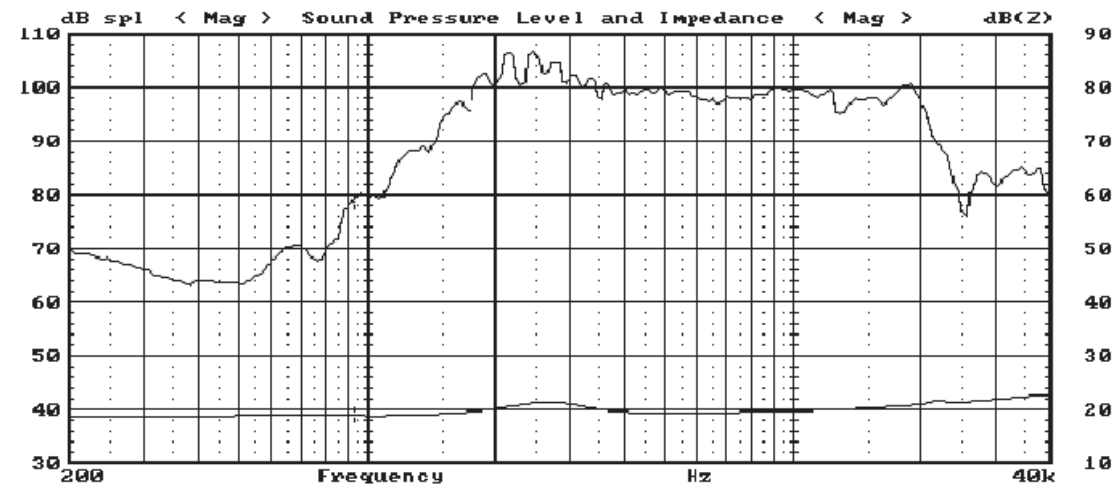
HIGH FREQUENCY SUPER TWEETER

GENERAL SPECIFICATIONS

Size	: 88x148.5mm	3.4x5.8	Inch
Rated Impedance	: 8	ohm	
Power Handling Capacity	: 40	W(rms)	
Sensitivity 1W@1m	: 99.0	dB	
Operating Bandwidth	: 3500 - 20000	Hz.	
Nominal Coverage	: (H x V) -5 dB.	90°CX 40°C	
Throat Diameter	: 25.00mm	1	Inch
Recommended Crossover	: 2nd . Order or higher		

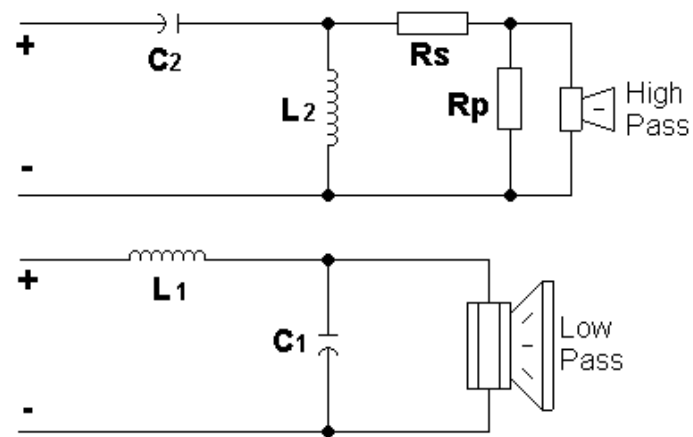
THIELE -SMALL PARAMETERS

Resonance Frequency	F s	2644.0	Hz
DC Resistance	R e	8.1	ohm
Mechanical Q Factor	Q ms	1.693	
Electrical Q Factor	Q es	3.747	
Total Q Factor	Q ts	1.166	
Voice -coil inductance @ 1kHz	Le	0.04	mH



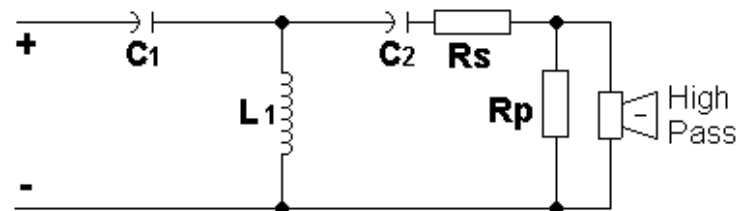
Отсюда примерно нарисовался фильтр:

2 порядок ($R_s = 0.87$; $R_p = 65.56$)



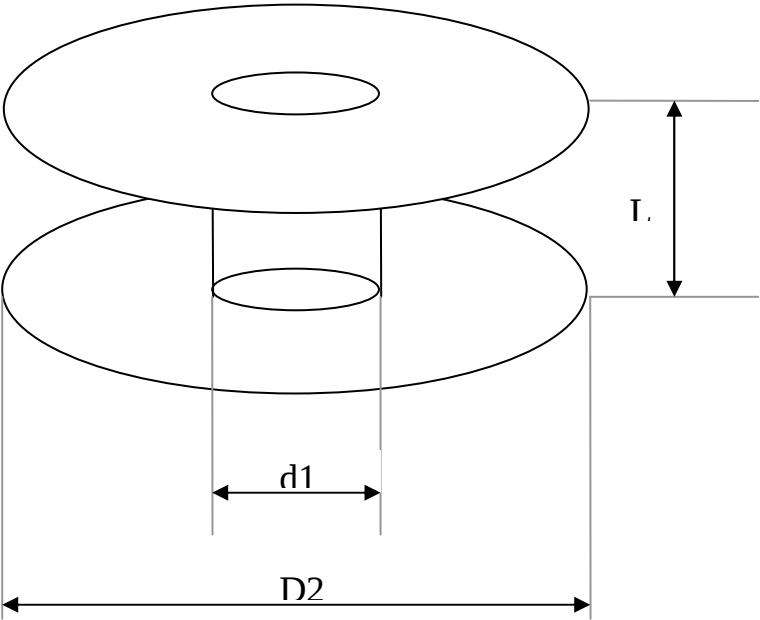
	3.5 кГц	4.0 кГц	4.5 кГц
C2	4.02	3.52	3.12
L2	0.51	0.45	0.4
C1	8.04	7.03	6.25
L1	0.26	0.23	0.2

3 порядок ($R_s = 0.87$; $R_p = 65.56$)



	3.5 кГц	4.0 кГц	4.5 кГц
C1	3.79	3.32	2.95
C2	11.37	9.95	8.84
L1	0.27	0.24	0.21

Намоточные данные



	Кол-во витков	Сечение мм ²	Сопротив.	L	d1	D2
0.51	134	0.5	0.481	11	22	44
0.45	128	0.5	0.446	11	21	42
0.4	122	0.5	0.414	10	21	42
0.26	80	1.7	0.118	16	32	64
0.23	76	1.7	0.109	15	31	62
0.2	72	1.7	0.100	15	30	60