

CNO-T25

SEAS **W18NX001** + **T25C003 (E00036)**

Based on response from the **CNO** construction, a few people think the T29 tweeter prices are a bit steep - and they are indeed, thus this T25C003 version. The obvious question is: How much better are the T29 versions? Hmm....that is a tough one. I do think the T29s are better, but if I had to pick either in a blind test, I'd probably be in trouble. If I had to point out *some* difference, it might be that the T29s are better handling large sound volumes, i.e. they can play louder before compression. At moderate listening levels, the differences are more subtle.

I won't do a lot of writing on this one. For more comments on drivers and construction, please read [CNO mkII article](#).

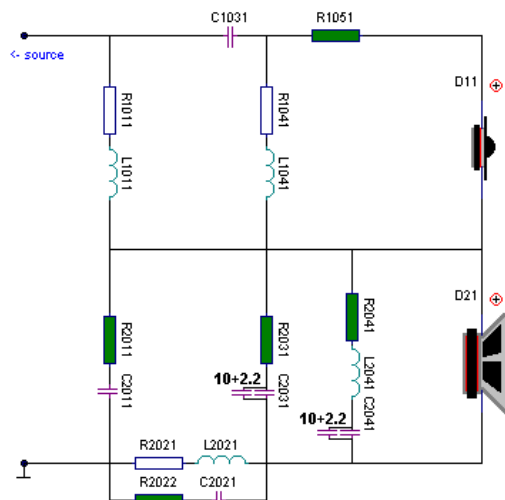


- bag of goodies -

Crossover

CNO-T25 SEAS W18/NX001 + T25C003

R1011	0.100 ohm
L1011	0.330 mH
C1031	3.900 uF
R1041	0.200 ohm
L1041	0.820 mH
R1051	4.7 ohm
R2011	3.30 ohm
C2011	6.8 uF
R2021	0.100 ohm
R2022	22.0 ohm
C2021	1.000 uF
L2021	1.000 mH
R2031	6.8 ohm
C2031	12.20 uF
R2041	10.0 ohm
C2041	12.2 uF
L2041	3.9 mH



Crossover schematics.

The crossover in many ways resemble the CNO, being a series construction - and including some modest equalisation to the midband. This caused some

controversy with the CNO and I strongly disagree the equalisation "kills the sound". It is very easy to fool the ear (our brain) by rising a specific frequency band that will spew out details - if the musical source allows - but basically it's low-fi and not how the reproduction was meant to be.

Crossover components

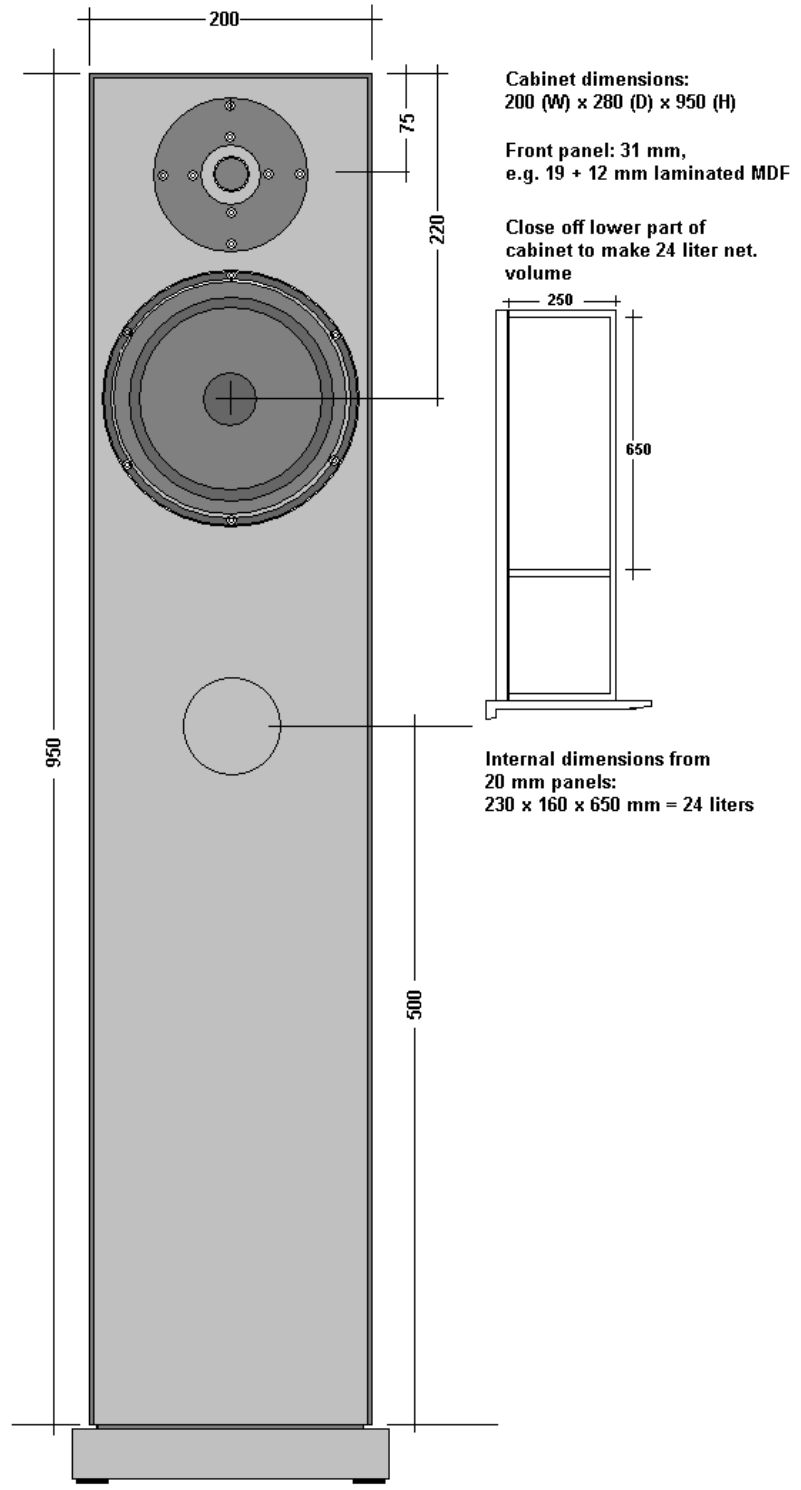
CNO-T25							
Coils:				dim. mm			
Coil No.	Wire Ø mm	AWG	mH	Ohm	Ø x h x Ø	core	discs pcs
18	1.60		1.00	0.25	25 x 30 x 61	0	0 2
8	1.60		0.33	0.13	8 x 25 x 46	0	0 2
5078	1.00		3.90	0.36	46 x 45	24635	4507 2
1859	0.80		0.82	0.63	15 x 36	0	0 2
Caps		leads	type	uF	mm, Ø x L		
Superior Z-cap	axial	MKP	1.0		18x43		2
Superior Z-cap	axial	MKP	2.2		25x45		4
Superior Z-cap	axial	MKP	3.9		30x56		2
Superior Z-cap	axial	MKP	6.8		35x65		2
Superior Z-cap	axial	MKP	10		45x70		4
Resistors, MOX		ohm	10W	5W	mm, 10 W		
10 watt MOX		3.3	x		8 x 53		
10 watt MOX		4.7	x		8 x 53		
10 watt MOX		6.8	x		8 x 53		
10 watt MOX		22	x		8 x 53		
Miscellaneous		item #		dim			
PORT, JA		900018		68 x220			
terminals, pairs		satin nickel					
wire		2.5 mm ² , Supra black					
solder tag strips							
DRIVERS		item #					
W18NX001		E0042-08S					
T25C003		E0036-06					

Crossover components from [Jantzen Audio](#).

Specify Superior Z-cap or CrossCap version.

e-mail: contact@jantzen-audio.com

Cabinet

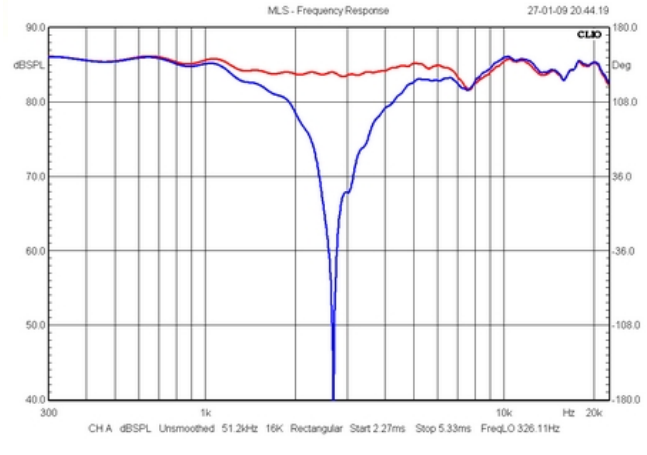
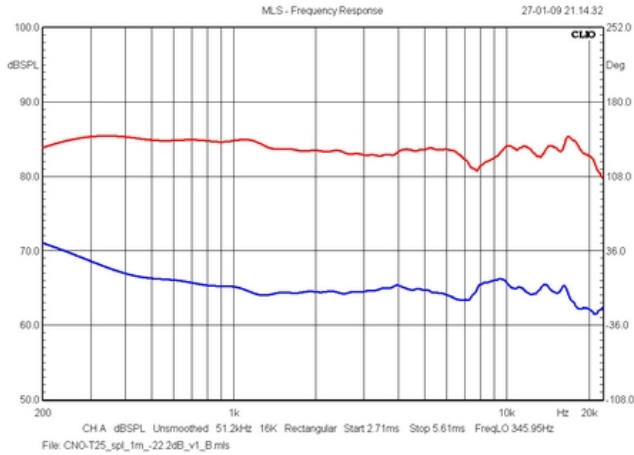


Make cabinet from 19-21 mm panels and front panel from 29-21 mm laminated panels.
Make base plate to tilt cabinet 5 deg.

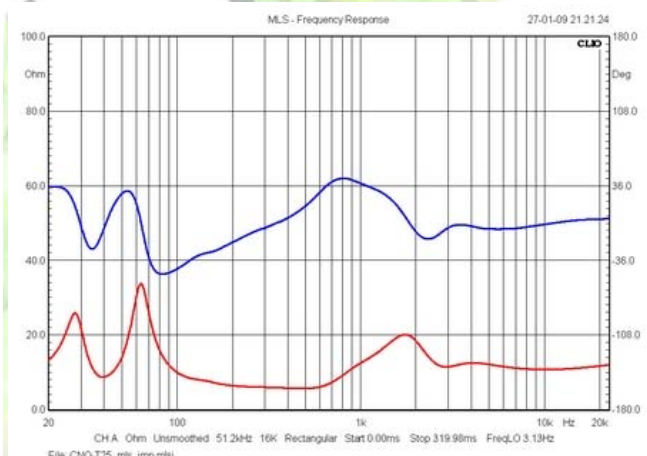
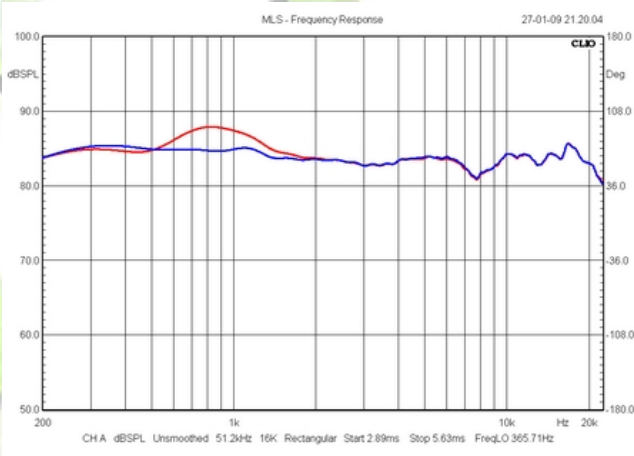


CNO-T25 testcabs. 2 x 16 mm MDF laminated for front panels.
Remember to chamfer W18 driver hole well for proper rear ventilation!

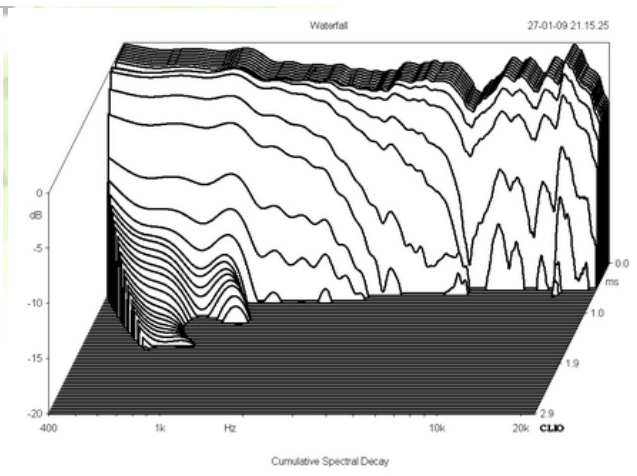
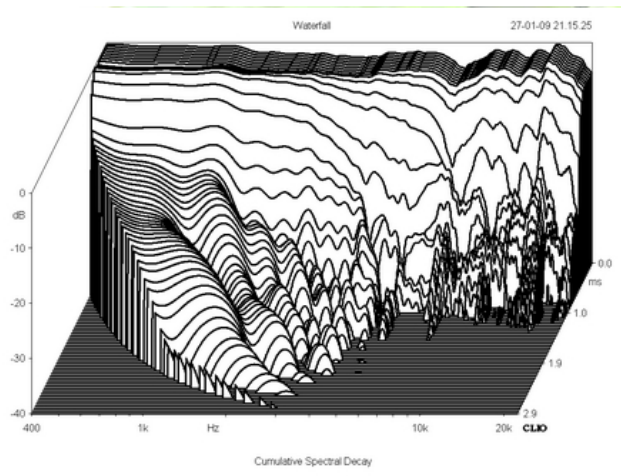
Measurements



Left: SPL @ 1 meter/2.8 volts. System sensitivity = 85 dB/2.8 volts.
Right: Blue = tweeter with inverted polarity. Point of crossover = 2700 Hz.



Left: Impact of mid notch filter. Right: System impedance, minimum = 6 ohms.



Left: CSD/40dB. Right: CSD/20dB