

Neodymium series

15N840

Neodymium Ultra Low Distortion Woofer



Features:

- 98dB sensitivity 1W/1m
- 1.200W Power handling
- 4" copper sandwich voice coil for low power compression
- Neodymium magnet system
- Double treated cone for water protection
- Triple aluminium demodulating rings for ultra low distortion
- Optimal for high output subwoofers

SPECIFICATIONS

APPLICATION	subwoofer	
Nominal impedance	Ohm	8 4
Power handling AES noise	W	1200 1200
Sensitivity (1W/1m)	dB	96 96
Frequency response	Hz	22 - 300
Voive coil diameter	mm	101.6 (4") 101.6 (4")
Voice coil material		Cu Cu
Voice coil winding depth	mm	38
Magnet gap depth	mm	10
Basket		Cast Aluminium
Effect. diaphragm diameter D	mm	330 330

THILE - SMALL PARAMETERS			
Resonance frequency	Fs	Hz	31.6 31.0
DC resistance	Re	Ohm	5.70 3.00
Mechanical Q factor	Qms		4.72 4.82
Electrical Q factor	Qes		0.35 0.36
Total Quality factor	Qts		0.33 0.33
Equivalent volume	Vas	L	133.05 133.05
Moving mass	Mms	kg	0.195 0.203
Mechanical compl.	Cms	mm/N	0.130 0.130
BL factor	BL	Tesla/m	25.09 18.20
Effective piston area	Sd	m ²	0.0855 0.0855
Max. linear excursion	Xmax	mm	± 14 ± 14
Voice coil inductance	Le1k	µH	1.44
	Le10k	µH	0.53

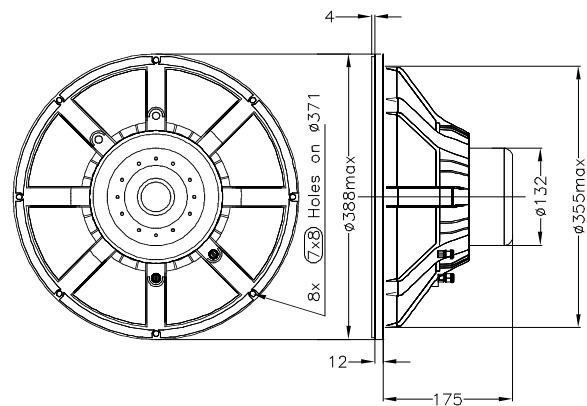
MOUNTING INFORMATION			
Overall diameter	mm	388 388	
Mounting holes diameter	mm	7 x 8 7 x 8	
Bolt circle diameter	mm	371 371	
Baffle cut-out diameter	mm	358 358	
Overall depth	mm	186 186	
Net weight	kg	5.8 5.8	

Recommended reflex enclosure:

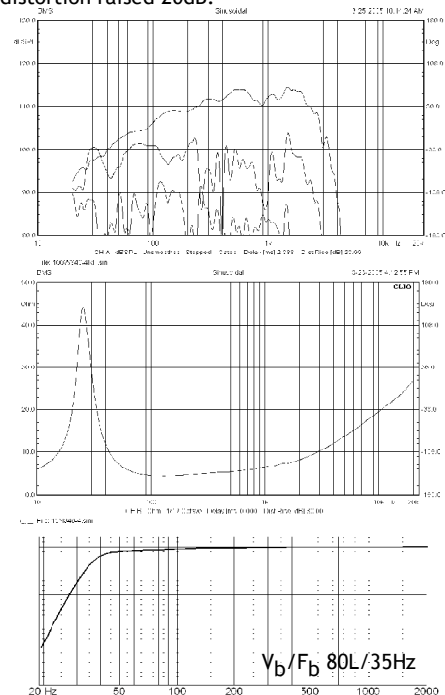
60L/35Hz, -3dB=36,6Hz, BRD=140mm/445mm long

80L/35Hz, -3dB=36,6Hz, BRD=160mm/457mm long

100L/33Hz, -3dB=33Hz, BRD=160mm/399mm long



Frequency response measured 100W (28,3V)@ 1m in a closed enclosure of 100 litre in an anechoic chamber incl. 2nd and 3rd harmonic distortion raised 20dB.



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