12CN682

12” Neodymium Coaxial Transducer

Features:

- Neodymium coaxial transducer
- 98 dB Sensitivity 1 W / 1 m
- 500 W + 80 W power handling
- 3” copper sandwich voice coil
- Triple aluminum demodulating rings
- Conical 60° waveguide for precise directivity
- Single point source providing coherent wave front
- Very high SPL, superb quality sound
- Optimal for compact 2-way systems

SPECIFICATIONS

Application		Transducer	
Nominal impedance		Ohm	8/8
Power handling AES noise		W	500
LOW FREQUENCY UNIT			
Sensitivity (1W / 1m)		dB	98
Frequency response		Hz	50 - 20000
Voice coil diameter		mm	77 (3”)
Voice coil material			Cu
Voice coil winding depth		mm	19
Magnet gap depth		mm	8
Basket			Cast Aluminum
Voice coil inductance Le		mH	0.6
THIELE-SMALL PARAMETERS			
Resonance frequency	Fs	Hz	46
DC resistance	Re	Ohm	5.7
Mechanical Q factor		Qms	5.8
Electrical Q factor		Qes	0.27
Total Quality factor		Qts	0.26
Equivalent volume	Vas	L	58
Moving mass	Mms	kg	0.069
Mechanical compliance	Cms	mm/N	0.170
BL factor	BL	Tesla m	20.6
Effective piston area	Sd	m^2	0.0487
Max. linear excursion	Xmax	mm	+/- 5.5

SPECIFICATIONS HIGH FREQUENCY		
Power handling AES	W	80
Peak power	W	450
Sensitivity (1W / 1m)	dB	113
Frequency range	Hz	600-20000
Recommended crossover	Hz	1300
Voice coil diameter	mm	44.4 (1.75”)
Magnet material		Neodymium
Flux density	T	2.2
Voice coil material	Copper Clad aluminum	
	(2 layers in- and outside of the VC)	
Voice coil former	Kapton™	
Diaphragm material	Polyester	
Recommended reflex enclosure:		
24 L / 57 Hz, BRD = 90 mm / 153 mm long		

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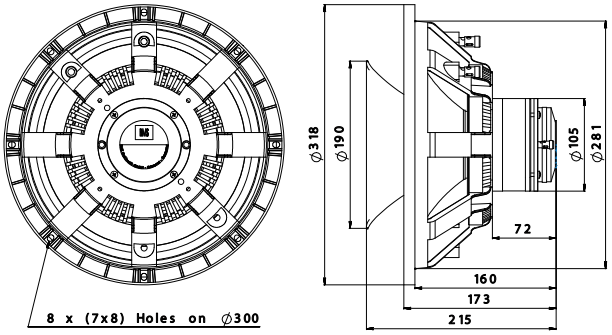
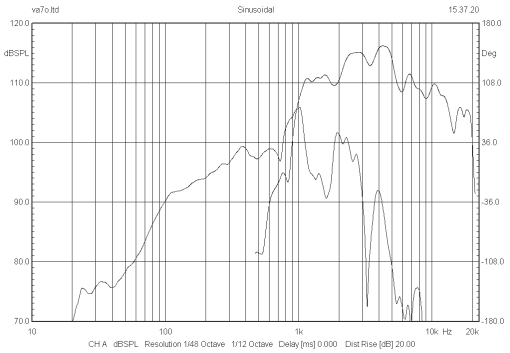
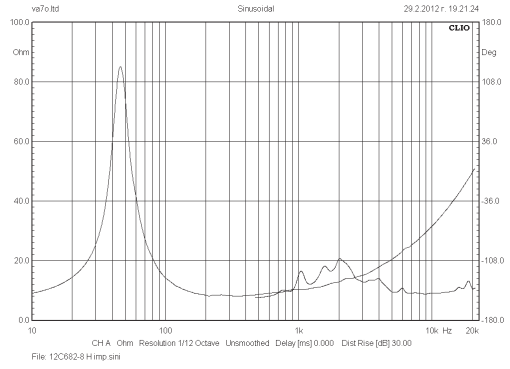
24L / 57 Hz, BRD = 90 mm / 153 mm long







MOUNTING INFORMATION		
Overall diameter	mm	318
Mounting holes diameter	mm	8x (7x8)
Bolt circle diameter	mm	300
Baffle cut out diameter	mm	284
Overall depth	mm	215
Net weight	kg	5.1