

# 12C382

12" Coaxial Transducer

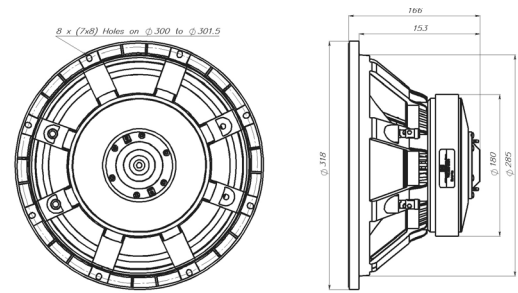


**Features:**

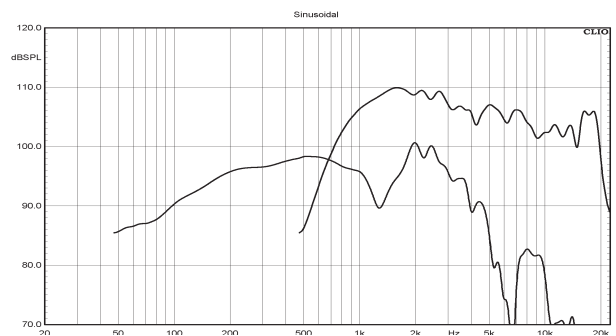
- 98 dB sensitivity 1 W / 1 m
- 500W + 80W Power handling
- 3" Copper sandwich voice coil
- Double treated cone for water protection
- Triple aluminum demodulating ring
- Single point source providing coherent wave front
- Very high SPL, superb quality sound
- Optimal for compact 2-way systems
- Light weight carbon fiber diaphragm

## SPECIFICATIONS

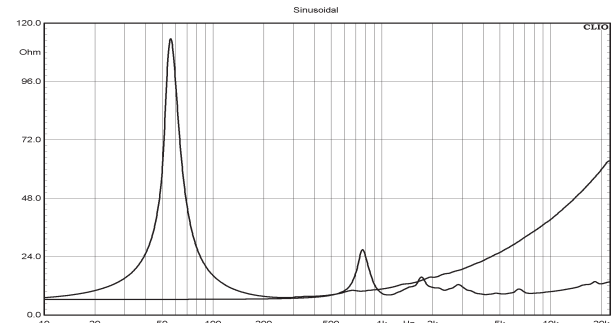
APPLICATION	Transducer		
Nominal impedance	Ohm	8/8 Ohm	
Power handling AES noise	W	500	
LOW FREQUENCY UNIT			
Sensitivity (1W / 1m)	dB	98	
Frequency response	Hz	45-20000	
Voice Coil Diameter	mm	77 (3")	
Voice Coil Material		Cu	
Voice Coil Winding Depth	mm	19	
Magnet Gap Depth	mm	10	
Basket	Cast Aluminum		
Effect. diaphragm diameter D	mm	249	
THIELE-SMALL PARAMETERS			
Resonance Frequency	Fs	Hz	52
DC Resistance	Re	Ohm	5.8
Mechanical Q Factor	Qms		5.6
Electrical Q Factor	Qes		0.3
Total Quality Factor	Qts		0.29
Equivalent Volume	Vas	L	57
Moving Mass	Mms	kg	0.055
Mechanical Compliance	Cms	mm/N	0.17
BL Factor	BL	Tesla m	18.6
Effective Piston Area	Sd	m <sup>2</sup>	0.0487
Max. Linear Excursion	Xmax	mm	± 4.5
Voice Coil Inductance	Le1k	mH	0.9
	Le10k	mH	0.55
SPECIFICATIONS HIGH FREQUENCY			
Power handling AES	W	80	
Peak Power	W	450	
Sensitivity (1W / 1m)	dB	110	
Frequency range	Hz	700-20000	
Recommended crossover	Hz	1100	
Voice Coil Diameter	mm	44.4(1.75")	
Magnet material	Ferrite		
Flux density	T	1.8	
Voice coil material:	Copper clad Aluminum		
	(2 layers in and outside the VC)		
Voice coil former	Kapton TM		
Diaphragm material	Polyester		



Frequency response measured 1W (2.83V) at 1 m on a standard baffle in an anechoic chamber.



Impedance - 8 Ohm driver



MOUNTING INFORMATION		
Overall Diameter	mm	Ø318
Mounting Holes Diameter	mm	8 x (7 x 8)
Bolt Circle Diameter mm	From ø300 up to ø301.5 ±0.1	
Baffle cut-out Diameter	mm	Ø285
Overall Depth	mm	166
Net weight	Kg	7.75

**Recommended reflex enclosure:**  
12C382: 35L/52Hz BRD=100mm/175mm long