ND9812 PRELIMINARY

VERIFIED WITH KLIPPEL

- 12 inch
- 500 Watts
- 98 dB
- 59 ~ 3600 Hz

KEY FEATURES:

① 1000 W continuous program power capacity
② Sensitivity: 98dB 1w/1m
③ 59 ~ 3600Hz frequency response range
④ 76mm(3") high temperature copper clad aluminum voice coil wounded on fiberglass former
⑤ The advanced motor structure is built with an aluminum heat radiator, it also acts as demodulating ring. The structure allows an extreme heat dispersion and a very low distortion figure
⑥ High temperature SH grade neodymium magnet
⑦ Optimized for the use in high quality bass reflex systems

GENERAL SPECIFICATIONS

Nominal Diameter	300mm /12inch
Rated Impedance	8 ohm
Nominal Power handling[1]	500 Watts
Program Power[2]	1000 Watts
Sensitivity(1w/1m)[3]	98 dB
Frequency Range[4]	59 ~ 3600Hz
Minimum Impedance(Zmin)	6.3 ohm
Voice Coil Diameter	76mm /3inch
Voice Coil Material	CCAW
Former Material	Glass Fiber
Voice Coil Winding Depth	18.7 mm
Number of layers	2(inside/outside)
Magnet gap depth	10 mm
Basket	Cast Aluminum
Flux Density	1.2 T
Magnet Material	Neodymium

THIELE – SMALL PARAMETERS[5]

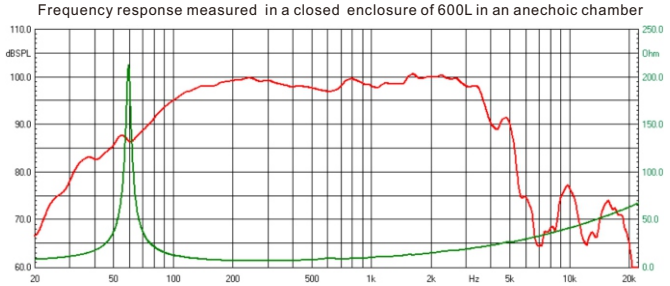
Resonance frequency	Fs	59.5 Hz
DC resistance	Re	5.4 ohm
Mechanical factor	Qms	19
Electrical factor	Qes	0.44
Total factor	Qts	0.43
Mechanical compliance	Cms	0.12 mm/N
Mechanical resistance of total-driver losses	Rms	1.2 kg/s
Effective Moving Mass	Mms	61 g
Half-space efficiency	Eff	2.3%
BL Factor	BL	16.7 T.m
Equivalent Cas air load	Vas	50 liters
Effective piston area	Sd	0.0552 m^2
Max. linear excursion[6]	Xmax	± 6.9 mm
Max. excursion before damage	Xdam	±18.7mm
Voice coil inductance(1kHz)	Le	0.72 mH
Efficiency Bandwidth Product	EBP	135

MOUNTING INFORMATION

Overall Diameter	316 mm
Bolt Circle Diameter	297 mm
Bolt Hole Diameter	6.5 mm
Baffle Cutout Diameter	283 mm
Overall Depth	145 mm
Air volume occupied by driver	2.8 liters
Net Weight	5.4 kg
Shipping Weight	6.1 kg
Shipping Box	345x345x180mm

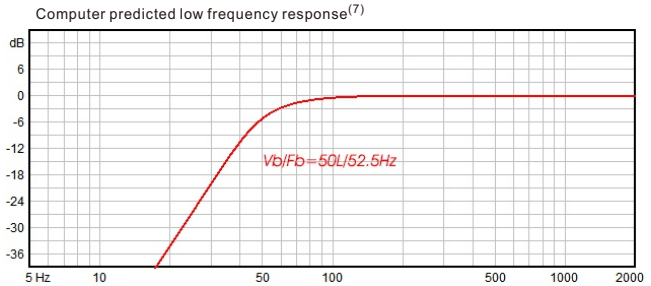
Also available in 16ohm, data upon request.

Frequency response measured in a closed enclosure of 600L in an anechoic chamber



Impedance magnitude curve measured in free air

Computer predicted low frequency response[7]



Vb/Fb = 50L/52.5Hz

NOTES:

1. AES standard
2. Program Power is defined as 3 dB greater than the nominal power handling.
3. Sensitivity is measured at 1W input on rated impedance at 1m on axis.
4. Frequency range is defined as the band of frequencies delineated by the lower and upper limits where the output level drops by 10dB below the rated sensitivity.
5. Thiele-Small parameters are measured with Klippel DA LPM module BEFORE preconditioning test.
6. The maximum linear excursion is calculated as: (Hvc-Hg)/2+Hg/4 where Hvc is the voice coil depth and Hg is the gap depth.
7. Vb: Net internal volume of box after subtracting the volume of internal objects.