

ND9810 PRELIMINARY



- ☀ 10 inch
- ☀ 400 Watts
- ☀ 99 dB
- ☀ 70 ~ 4100 Hz



KEY FEATURES:

- ① 800 W continuous program power capacity
- ② High efficiency : 99dB 1w/1m
- ③ 70 ~ 4100Hz 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 or midrange systems

GENERAL SPECIFICATIONS

Nominal Diameter	250mm /10inch
Rated Impedance	8 ohm
Nominal Power handling ¹	400 Watts
Program Power ²	800 Watts
Sensitivity(1w/1m) ³	99 dB
Frequency Range ⁴	70 ~ 4100Hz
Minimum Impedance(Zmin)	6.3 ohm
Voice Coil Diameter	76mm /3inch
Voice Coil Material	CCAW
Former Material	Glass Fiber
Voice Coil Winding Depth	17.2 mm
Number of layers	2(inside/outside)
Magnet gap depth	10 mm
Basket	Cast Aluminum
Flux Density	1.2 T
Magnet Material	Neodymium

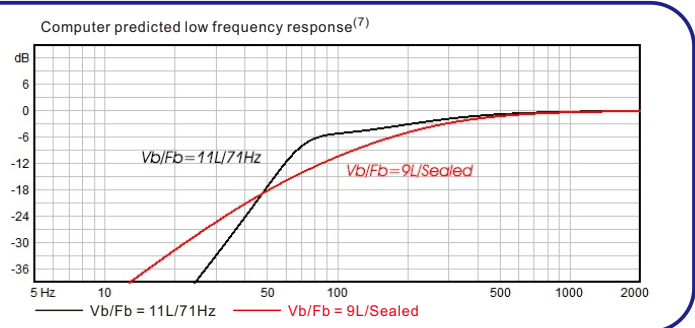
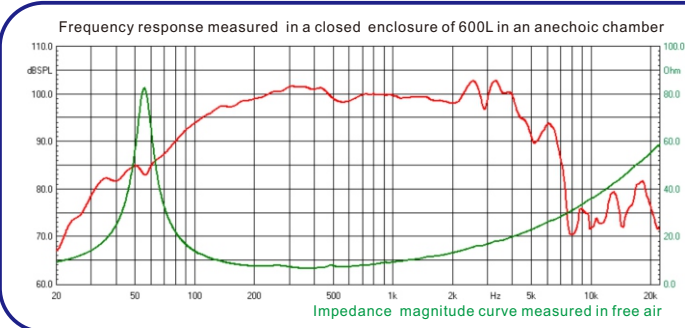
THIELE - SMALL PARAMETERS⁵

Resonance frequency	Fs	70 Hz
DC resistance	Re	5.3 ohm
Mechanical factor	Qms	16.4
Electrical factor	Qes	0.24
Total factor	Qts	0.24
Mechanical compliance	Cms	0.12 mm/N
Mechanical resistance of total-driver losses	Rms	1.1 kg/s
Effective Moving Mass	Mms	41 g
Half-space efficiency	Eff	2.9%
BL Factor	BL	20.2 T.m
Equivalent Cas air load	Vas	21 liters
Effective piston area	Sd	0.0346 m ²
Max. linear excursion ⁶	Xmax	±6.1mm
Max. excursion before damage	Xdam	±17 mm
Voice coil inductance(1kHz)	Le	0.61 mH
Efficiency Bandwidth Product	EBP	292

MOUNTING INFORMATION

Overall Diameter	261 mm
Bolt Circle Diameter	246 mm
Bolt Hole Diameter	5.5 mm
Baffle Cutout Diameter	228 mm
Overall Depth	127 mm
Air volume occupied by driver	1.9 liters
Net Weight	4.9 kg
Shipping Weight	5.4 kg
Shipping Box	295x295x155mm

Also available in 16ohm, data upon request.



- 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.