

ND9012w



☀ 12 inch ☀ 400 Watts
☀ 98.5 dB ☀ 44 ~ 3500 Hz



KEY FEATURES:

- ① 800 W continuous program power capacity
- ② High efficiency: 98.5dB 1w/1m
- ③ 76mm(3") aluminum voice coil wound on Kapton former
- ④ Vented on former, dual-forced air ventilation magnet system for heat dispersion and minimum power compression
- ⑤ UKM paper cone
- ⑥ Special treatment on cone in house for excellent performance
- ⑦ high temperature SH grade neodymium magnet; FEA optimized magnetic circuit for the highest force factor
- ⑧ A ferrite magnet on top of core for heat dispersion and higher flux density
- ⑨ Optimized for the use in line array or compact bass reflex systems

GENERAL SPECIFICATIONS

Nominal Diameter	300mm /12inch
Rated Impedance	8 ohm
Nominal Power handling ¹	400 Watts
Program Power ²	800 Watts
Sensitivity(1w/1m) ³	99 dB
Frequency Range ⁴	44 ~ 3500Hz
Minimum Impedance(Zmin)	6.8 ohm
Voice Coil Diameter	76mm /3inch
Voice Coil Material	CCAW
Former Material	Polyimide
Voice Coil Winding Depth	17.5 mm
Number of layers	2
Magnet gap depth	10 mm
Basket	Cast Aluminum
Flux Density	1.2 T
Magnet Material	Neodymium

THIELE - SMALL PARAMETERS⁵

Resonance frequency	Fs	46 Hz
DC resistance	Re	5.6 ohm
Mechanical factor	Qms	9.8
Electrical factor	Qes	0.263
Total factor	Qts	0.259
Mechanical compliance	Cms	0.22 mm/N
Mechanical resistance of total-driver losses	Rms	1.08 kg/s
Effective Moving Mass	Mms	56 g
Half-space efficiency	Eff	3.2%
BL Factor	BL	19.8 T.m
Equivalent Cas air load	Vas	91 liters
Effective piston area	Sd	0.0547 m ²
Max. linear excursion ⁶	Xmax	±6.5 mm
Max. excursion before damage	Xdam	± 15 mm
Voice coil inductance(1kHz)	Le	0.86 mH
Efficiency Bandwidth Product	EBP	177

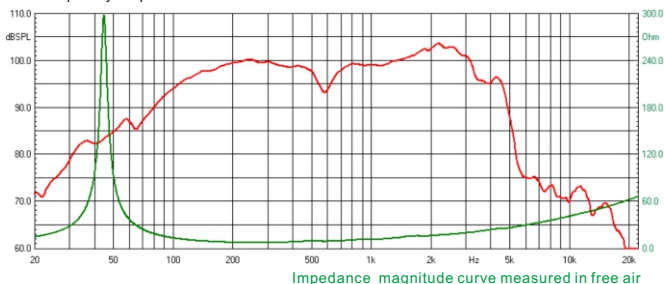
MOUNTING INFORMATION

Overall Diameter	316 mm
Bolt Circle Diameter	297 mm
Bolt Hole Diameter	6.5 mm
Baffle Cutout Diameter	283 mm
Overall Depth	144 mm
Air volume occupied by driver	2.8 liters
Net Weight	4.4 kg
Shipping Weight	5.1 kg
Shipping Box	345x345x180mm

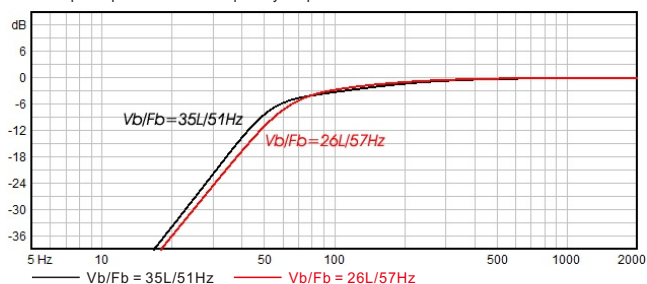
Also available in 16ohm, data upon request.



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



Computer predicted low frequency response⁽⁷⁾



NOTES:

- AES standard
- Program Power is defined as 3 dB greater than the nominal power handling.
- Sensitivity is measured at 1W input on rated impedance at 1m on axis.
- 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.
- Thiele-Small parameters are measured with Klippel DALPM module BEFORE preconditioning test.
- The maximum linear excursion is calculated as: $(H_{vc}-H_g)/2+H_g/4$ where H_{vc} is the voice coil depth and H_g is the gap depth.
- V_b : Net internal volume of box after subtracting the volume of internal objects.