

# 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 FEA optimized neodymium magnet assembly allows the highest force factor and excursion capability
- ⑥ Special treatment on cone in house for excellent performance
- ⑦ Paper cone made in UK
- ⑧ Optimized for the use in line array systems or compact bass reflex enclosure

## GENERAL SPECIFICATIONS

Nominal Diameter	300mm /12inch
Rated Impedance	8 ohm
Nominal Power handling <sup>1</sup>	400 Watts
Program Power <sup>2</sup>	800 Watts
Sensitivity(1w/1m) <sup>3</sup>	98.5 dB
Frequency Range <sup>4</sup>	44 ~ 3500Hz
Minimum Impedance(Zmin)	7.2 ohm
Voice Coil Diameter	76mm /3inch
Voice Coil Material	Aluminum
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 PARAMETERS<sup>5</sup>

Resonance frequency	Fs	46 Hz
DC resistance	Re	5.6 ohm
Mechanical factor	Qms	7.9
Electrical factor	Qes	0.26
Total factor	Qts	0.25
Mechanical compliance of suspension losses	Cms	0.19 mm/N
Effective Moving Mass	Mms	62 g
Half-space efficiency	Eff	3.1%
BL Factor	BL	19.8 T.m
Equivalent Cas air load	Vas	81 liters
Effective piston area	Sd	0.0552 m <sup>2</sup>
Max. linear excursion <sup>6</sup>	Xmax	6.5 mm
Voice coil inductance	Le1K	0.88 mH
Efficiency Bandwidth Product	EBP	177

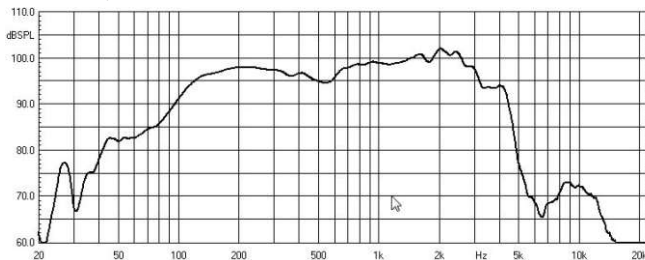
## MOUNTING INFORMATION

Overall Diameter	316 mm
Bolt Circle Diameter	297 mm
Bolt Hole Diameter	6.5 mm
Baffle Cutout Diameter	283 mm
Overall Depth	144 mm
Net Weight	4.4 kg
Shipping Weight	5.1 kg
Shipping Box	345x345x1 80mm

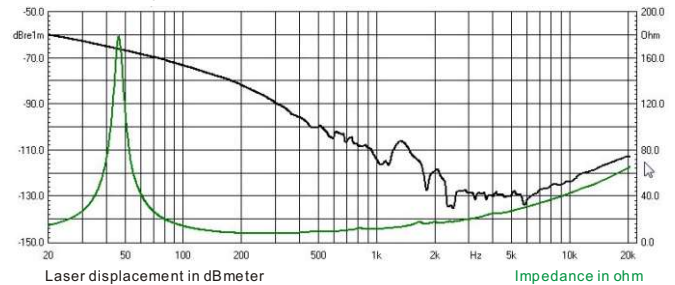
Also available in 16ohm, data upon request.



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



Impedance magnitude curve measured in free air



## 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. T/S parameters measured with laser system without preconditioning test at 23 Celsius degree environment.
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.