

ND9512m

☀ 12 inch ☀ 400 Watts
☀ 101 dB ☀ 43 ~ 3000 Hz



KEY FEATURES:

- ① 800 W continuous program power capacity
- ② High efficiency: 101dB 1w/1m
- ③ Smooth frequency response up to 3kHz
- ④ 76mm(3") aluminum voice coil wounded on Kapton former
- ⑤ High grade neodymium magnet allows a very light yet powerful motor assembly
- ⑥ Special treated cloth edge for reducing distortion
- ⑦ Optimized for the use in line array systems or compact reflex enclosure

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	101dB
Frequency Range ⁴	43 ~ 3000Hz
Minimum Impedance(Zmin)	7.6 ohm
Voice Coil Diameter	76mm /3inch
Voice Coil Material	Aluminum
Former Material	Polyimide
Voice Coil Winding Depth	18 mm
Number of layers	2
Magnet gap depth	10 mm
Basket	Cast Aluminum
Flux Density	1.45 T
Magnet Material	Neodymium

THIELE - SMALL PARAMETERS⁵

Resonance frequency	Fs	55 Hz
DC resistance	Re	5.6 ohm
Mechanical factor	Qms	8.1
Electrical factor	Qes	0.17
Total factor	Qts	0.15
Mechanical compliance	Cms	0.24 mm/N
Mechanical resistance of total-driver losses	Rms	1.84 kg/s
Effective Moving Mass	Mms	53 g
Half-space efficiency	Eff	5.12%
BL Factor	BL	23 T.m
Equivalent Cas air load	Vas	94 liters
Effective piston area	Sd	0.0531 m ²
Max. linear excursion ⁶	Xmax	±6.5mm
Max. excursion before damage	Xdam	±16 mm
Voice coil inductance(1kHz)	Le	0.68 mH
Efficiency Bandwidth Product	EBP	343

MOUNTING INFORMATION

Overall Diameter	316 mm
Bolt Circle Diameter	297 mm
Bolt Hole Diameter	6.5 mm
Baffle Cutout Diameter	283 mm
Overall Depth	140 mm
Air volume occupied by driver	3.0 liters
Net Weight	5 kg
Shipping Weight	5.7 kg
Shipping Box	345x345x180mm

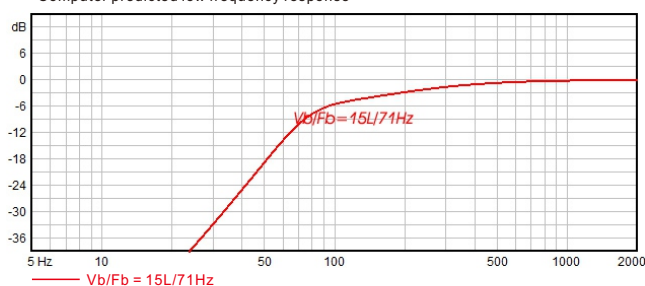
Also available in 16ohm, data upon request.



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



Computer predicted low frequency response⁽⁷⁾



NOTES:

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 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.