

M5212

☀️ 12 inch ☀️ 500 Watts
☀️ 97.5 dB ☀️ 55 ~ 3000 Hz



KEY FEATURES:

- ① 1000 W continuous program power capacity
- ② Sensitivity: 97.5dB 1w/1m
- ③ 3" inside/outside winding voice coil with CCAW wire
- ④ Low background noise and flexible white damper
- ⑤ FEA optimized magnet system design for low distortion and minimum power compression
- ⑥ M-roll cloth edge with deep corrugations for extended Xmax.
- ⑦ Paper cone made in the U.S.A
- ⑧ Idea for high quality compact 2 or 3-way systems

GENERAL SPECIFICATIONS

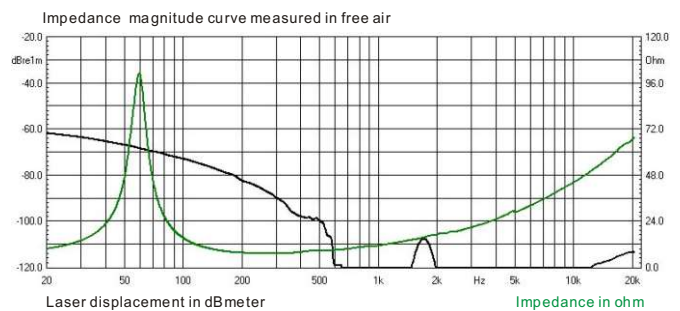
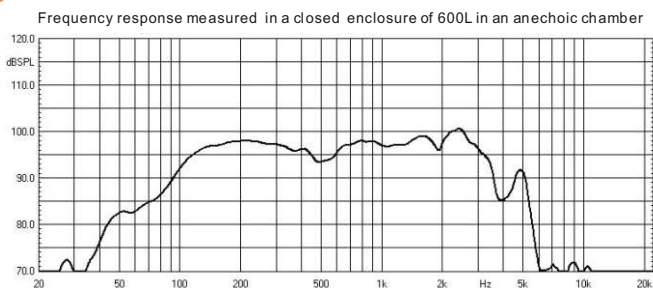
Nominal Diameter	300mm /12inch
Rated Impedance	8 ohm
Nominal Power handling ¹	500 Watts
Program Power ²	1000 Watts
Sensitivity(1w/1m) ³	97.5 dB
Frequency Range ⁴	55 ~ 3000Hz
Minimum Impedance(Zmin)	6.9 ohm
Voice Coil Diameter	76mm /3inch
Voice Coil Material	CCA W
Former Material	Glass Fiber
Voice Coil Winding Depth	17 mm
Number of layers	2(inside/outside)
Magnet gap depth	10.5 mm
Basket	Cast Aluminum
Flux Density	1.2 T
Magnet Outer Diameter / Wgt	190mm / 78 oz

THIELE - SMALL PARAMETERS⁵

Resonance frequency	Fs	59 Hz
DC resistance	Re	5.6 ohm
Mechanical factor	Qms	6.3
Electrical factor	Qes	0.37
Total factor	Qts	0.35
Mechanical compliance	Cms	0.11 mm/N
of suspension losses	Rms	3.8 mech-ohm
Effective Moving Mass	Mms	63.6 g
Half-space efficiency	Eff	2.6%
BL Factor	BL	19 T.m
Equivalent Cas air load	Vas	47 liters
Effective piston area	Sd	0.0552 m ²
Max. linear excursion ⁶	Xmax	6 mm
Voice coil inductance	Le1K	1.0 mH
Efficiency Bandwidth Product	EBP	159

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
Net Weight	7.7 kg
Shipping Weight	8.4 kg
Shipping Box	345x345x1 80mm



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.