

# M5215

☀️ 15 inch ☀️ 500 Watts  
☀️ 99 dB ☀️ 45 ~ 2800 Hz



## KEY FEATURES:

- ① 1000 W continuous program power capacity
- ② Sensitivity: 99dB 1w/1m
- ③ 76mm (3") high temperature inside/outside voice coil with copper clad aluminum wire
- ④ Paper cone imported from U.S.A
- ⑤ M-roll surround and curved cone geometry
- ⑥ Ideal for high quality compact 2 or 3-way systems

## GENERAL SPECIFICATIONS

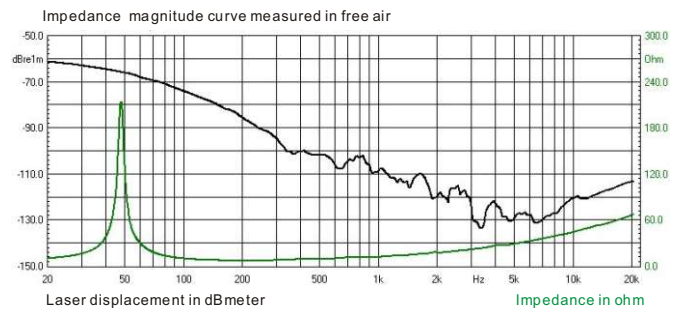
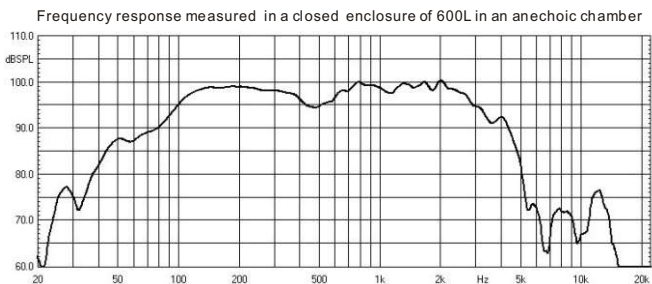
|                                     |                   |
|-------------------------------------|-------------------|
| Nominal Diameter                    | 380mm /15inch     |
| Rated Impedance                     | 8 ohm             |
| Nominal Power handling <sup>1</sup> | 500 Watts         |
| Program Power <sup>2</sup>          | 1000 Watts        |
| Sensitivity(1w/1m) <sup>3</sup>     | 99 dB             |
| Frequency Range <sup>4</sup>        | 45 ~ 2800Hz       |
| Minimum Impedance(Zmin)             | 7 ohm             |
| Voice Coil Diameter                 | 76mm /3inch       |
| Voice Coil Material                 | CCAW              |
| Former Material                     | Glass Fiber       |
| Voice Coil Winding Depth            | 18 mm             |
| Number of layers                    | 2(inside/outside) |
| Magnet gap depth                    | 10 mm             |
| Basket                              | Cast Aluminum     |
| Flux Density                        | 1.2 T             |
| Magnet Outer Diameter / Wgt         | 190mm / 78 oz     |

## THIELE - SMALL PARAMETERS<sup>5</sup>

|  |      |                       |
|--|------|-----------------------|
| Resonance frequency                        | Fs   | 47 Hz                 |
| DC resistance                              | Re   | 5.6 ohm               |
| Mechanical factor                          | Qms  | 9.5                   |
| Electrical factor                          | Qes  | 0.43                  |
| Total factor                               | Qts  | 0.41                  |
| Mechanical compliance of suspension losses | Cms  | 0.12 mm/N             |
| Mechanical resistance                      | Rms  | 1.7 mech-ohm          |
| Effective Moving Mass                      | Mms  | 90 g                  |
| Half-space efficiency                      | Eff  | 3.3%                  |
| BL Factor                                  | BL   | 19 T.m                |
| Equivalent Cas air load                    | Vas  | 136 liters            |
| Effective piston area                      | Sd   | 0.0892 m <sup>2</sup> |
| Max. linear excursion <sup>6</sup>         | Xmax | 6.5 mm                |
| Voice coil inductance                      | Le1K | 1.05 mH               |
| Efficiency Bandwidth Product               | EBP  | 109                   |

## MOUNTING INFORMATION

|                        |                 |
|------------------------|-----------------|
| Overall Diameter       | 393 mm          |
| Bolt Circle Diameter   | 375 mm          |
| Bolt Hole Diameter     | 6.5 mm          |
| Baffle Cutout Diameter | 355 mm          |
| Overall Depth          | 168 mm          |
| Net Weight             | 8.1 kg          |
| Shipping Weight        | 8.8 kg          |
| Shipping Box           | 425x425x2 15 mm |



## 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.