

# M5415

☀️ 15 inch ☀️ 650 Watts  
☀️ 98 dB ☀️ 33 ~ 2300 Hz



## KEY FEATURES:

- ① 1300 W continuous program power capacity
- ② Sensitivity: 98dB 1w/1m
- ③ 100mm(4") high temperature inside/outside voice coil with copper clad aluminum wire
- ④ Treated cone for water and humidity protection
- ⑤ M-roll surround and curved cone geometry
- ⑥ Ideal for compact 2 or 3-way systems

## GENERAL SPECIFICATIONS

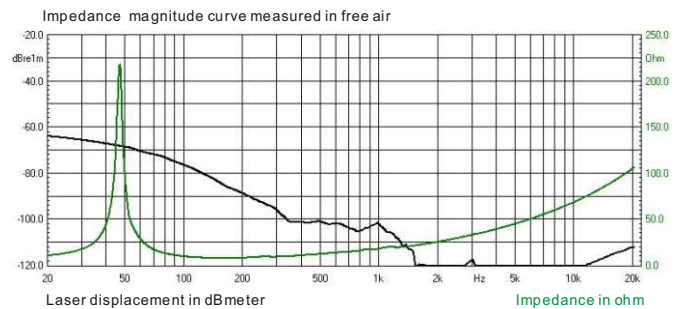
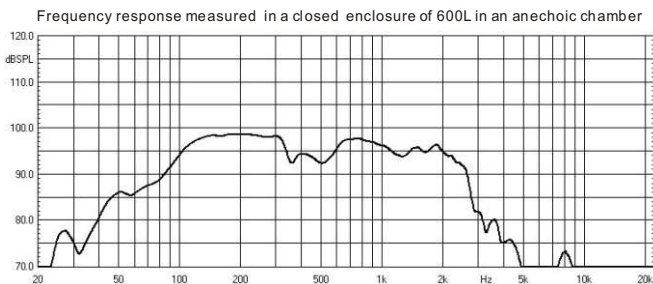
Nominal Diameter	380mm /15inch
Rated Impedance	8 ohm
Nominal Power handling <sup>1</sup>	650 Watts
Program Power <sup>2</sup>	1300 Watts
Sensitivity(1w/1m) <sup>3</sup>	98 dB
Frequency Range <sup>4</sup>	33 ~ 2300Hz
Minimum Impedance(Zmin)	7.2 ohm
Voice Coil Diameter	100mm /4inch
Voice Coil Material	CCA W
Former Material	Glass Fiber
Voice Coil Winding Depth	21 mm
Number of layers	2(inside/outside)
Magnet gap depth	10.7 mm
Basket	Cast Aluminum
Flux Density	1.1 T
Magnet Outer Diameter / Wgt	220mm / 125 oz

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

Resonance frequency	Fs	35 Hz
DC resistance	Re	5.5 ohm
Mechanical factor	Qms	11.5
Electrical factor	Qes	0.25
Total factor	Qts	0.24
Mechanical compliance	Cms	0.18 mm/N
Mechanical resistance of suspension losses	Rms	2.1 mech-ohm
Effective Moving Mass	Mms	106 g
Half-space efficiency	Eff	3.65%
BL Factor	BL	23 T.m
Equivalent Cas air load	Vas	106 liters
Effective piston area	Sd	0.0881 m <sup>2</sup>
Max. linear excursion <sup>6</sup>	Xmax	7.5 mm
Voice coil inductance	Le1K	1.5 mH
Efficiency Bandwidth Product	EBP	140

## MOUNTING INFORMATION

Overall Diameter	393 mm
Bolt Circle Diameter	375 mm
Bolt Hole Diameter	6.5 mm
Baffle Cutout Diameter	355 mm
Overall Depth	172 mm
Net Weight	11.6 kg
Shipping Weight	12.3 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.