

# M5415 / 2

☀ 15 inch ☀ 800 Watts  
☀ 99 dB ☀ 40 ~ 2800 Hz



## KEY FEATURES:

- ① 1600 W continuous program power capacity
- ② Sensitivity: 99dB 1w/1m
- ③ 100mm(4") high temperature inside/outside voice coil with copper clad aluminum wire
- ④ FEA designed ferrite magnetic
- ⑤ Vented back plate increases airflow to provide enhanced cooling
- ⑥ Aluminum demodulating ring reduces distortion and extends high frequency response to 2.8kHz
- ⑦ Ideal for compact 2 or 3-way systems

## GENERAL SPECIFICATIONS

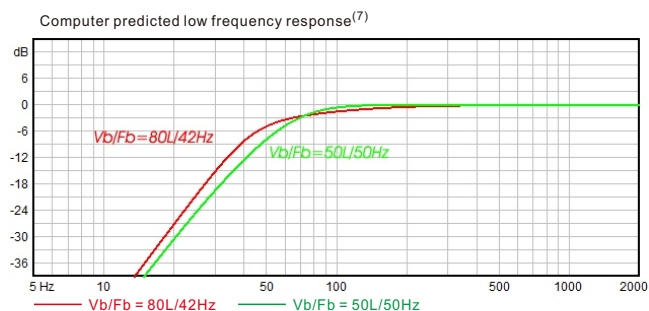
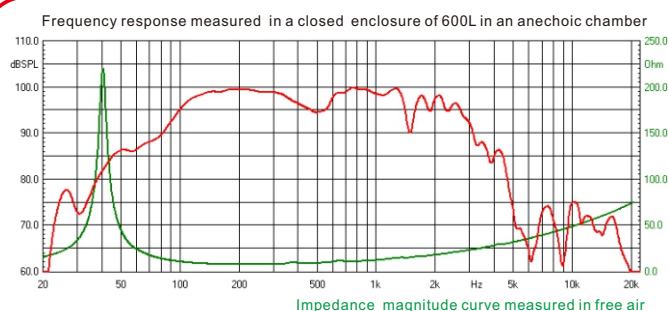
Nominal Diameter	380mm /15inch
Rated Impedance	8 ohm
Nominal Power handling <sup>1</sup>	800 Watts
Program Power <sup>2</sup>	1600 Watts
Sensitivity(1w/1m) <sup>3</sup>	99 dB
Frequency Range <sup>4</sup>	40 ~ 2800Hz
Minimum Impedance(Zmin)	7.0 ohm
Voice Coil Diameter	100mm /4inch
Voice Coil Material	CCAW
Former Material	Glass Fiber
Voice Coil Winding Depth	22 mm
Number of layers	2(inside/outside)
Magnet gap depth	12 mm
Basket	Cast Aluminum
Flux Density	1.1 T
Magnet Out Diameter/Wgt	220mm / 125 oz

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

Resonance frequency	Fs	40 Hz
DC resistance	Re	5.7 ohm
Mechanical factor	Qms	11.5
Electrical factor	Qes	0.31
Total factor	Qts	0.30
Mechanical compliance	Cms	0.14 mm/N
Mechanical resistance of total-driver losses	Rms	2.4 kg/s
Effective Moving Mass	Mms	107 g
Half-space efficiency	Eff	3.3%
BL Factor	BL	22.4 T.m
Equivalent Cas air load	Vas	156 liters
Effective piston area	Sd	0.0887 m <sup>2</sup>
Max. linear excursion <sup>6</sup>	Xmax	± 7 mm
Max. excursion before damage	Xdam	±20mm
Voice coil inductance(1kHz)	Le	1.5 mH
Efficiency Bandwidth Product	EBP	129

## MOUNTING INFORMATION

Overall Diameter	393 mm
Bolt Circle Diameter	375 mm
Bolt Hole Diameter	6.5 mm
Baffle Cutout Diameter	355 mm
Overall Depth	170 mm
Air volume occupied by driver	6.5 liters
Net Weight	11 kg
Shipping Weight	11.7 kg
Shipping Box	425x425x215 mm



## NOTES:

- AES standard
- Program Power is defined as 3 dB greater than the nominal power handling.
- Sensitivity is measured at 1W input on rated impedance at 1m on axis.
- 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.
- T/S parameters measured with laser system BEFORE preconditioning test.
- The maximum linear excursion is calculated as:  $(H_{vc}-H_g)/2+H_g/4$  where  $H_{vc}$  is the voice coil depth and  $H_g$  is the gap depth.
- Vb: Net internal volume of box after subtracting the volume of internal objects.