

M5612

VERIFIED WITH
KLIPPEL

☀️ 12 inch ☀️ 400 Watts
☀️ 98 dB ☀️ 58 ~ 3000 Hz



KEY FEATURES:

- ① 800 W continuous program power capacity
- ② Sensitivity: 98dB 1w/1m
- ③ 58~3000Hz frequency response range
- ④ 3" CCAW sandwich voice coil for low power compression
- ⑤ Non pressed cone to supply additional damping, solid paper dust cap
- ⑥ Black Nomex spider
- ⑦ Aluminum Demodulating Ring for lower distortion
- ⑧ Idea for high quality compact 2 or 3-way systems

GENERAL SPECIFICATIONS

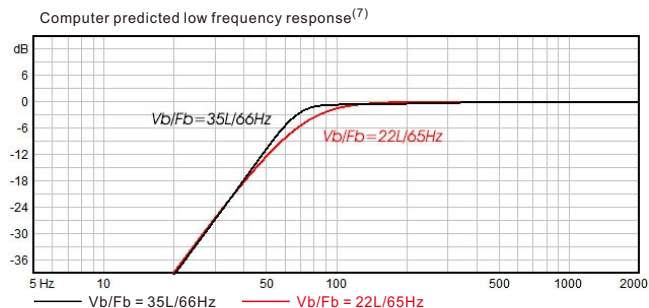
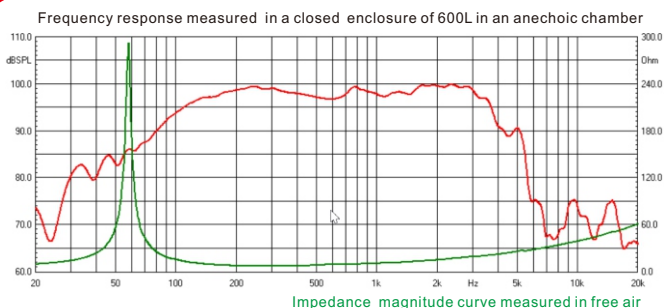
Nominal Diameter	300mm /12inch
Rated Impedance	8 ohm
Nominal Power handling ¹	400 Watts
Program Power ²	800 Watts
Sensitivity(1w/1m) ³	98 dB
Frequency Range ⁴	58 ~ 3000Hz
Minimum Impedance(Zmin)	6.6 ohm
Voice Coil Diameter	76mm /3inch
Voice Coil Material	CCA W
Former Material	Glass Fiber
Voice Coil Winding Depth	18 mm
Number of layers	2(inside/outside)
Magnet gap depth	10.5 mm
Basket	Cast Aluminum
Flux Density	1.2 T
Magnet Out Diameter/Wgt	190mm / 78 oz

THIELE - SMALL PARAMETERS⁵

Resonance frequency	Fs	58 Hz
DC resistance	Re	5.6 ohm
Mechanical factor	Qms	11.8
Electrical factor	Qes	0.344
Total factor	Qts	0.336
Mechanical compliance	Cms	0.11 mm/N
Mechanical resistance of total-driver losses	Rms	1.5 kg/s
Effective Moving Mass	Mms	65.5 g
Half-space efficiency	Eff	2.55%
BL Factor	BL	19.8 T.m
Equivalent Cas air load	Vas	49 liters
Effective piston area	Sd	0.0551 m ²
Max. linear excursion ⁶	Xmax	± 6.6 mm
Max. excursion before damage	Xdam	±18.2mm
Voice coil inductance(1kHz)	Le	0.72 mH
Efficiency Bandwidth Product	EBP	168

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
Air volume occupied by driver	3.7 liters
Net Weight	7.8 kg
Shipping Weight	8.5 kg
Shipping Box	345x345x180mm



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.
- Thiele-Small parameters are measured with Klippel DA LPM module BEFORE preconditioning test.
- 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.
- Vb: Net internal volume of box after subtracting the volume of internal objects.