

# S7012

☀ 12 inch ☀ 450 Watts  
☀ 97 dB ☀ 41 ~ 2700 Hz



## KEY FEATURES:

- ① 900 W continuous program power capacity
- ② Sensitivity: 97dB 1w/1m
- ③ 3" inside/outside winding voice coil with aluminum wire
- ④ Improved heat dissipation via unique basket design and multiple backplate vents
- ⑤ FEA optimized magnet system design for low distortion and minimum power compression
- ⑥ Special treatment on cone in house for excellent performance
- ⑦ UK manufactured cone offers increased strength, durability and performance
- ⑧ Idea for high quality compact 2 or 3-way systems

## GENERAL SPECIFICATIONS

Nominal Diameter	300mm /12inch
Rated Impedance	8 ohm
Nominal Power handling <sup>1</sup>	450 Watts
Program Power <sup>2</sup>	900 Watts
Sensitivity(1w/1m) <sup>3</sup>	97 dB
Frequency Range <sup>4</sup>	41 ~ 2700Hz
Minimum Impedance(Zmin)	6.7 ohm
Voice Coil Diameter	76mm /3inch
Voice Coil Material	Aluminum
Former Material	Glass Fiber
Voice Coil Winding Depth	19 mm
Number of layers	2(inside/outside)
Magnet gap depth	10.5 mm
Basket	Cast Aluminum
Flux Density	1.15 T
Magnet Out Diameter/Wgt	200mm / 76 oz

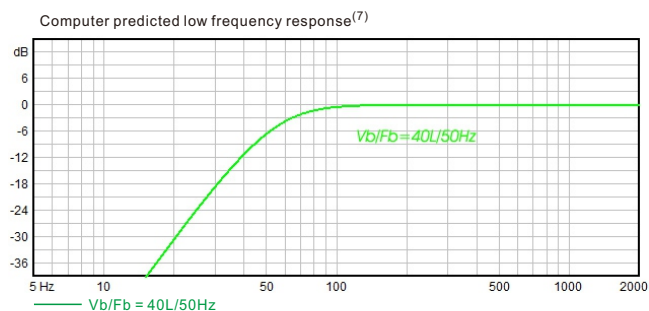
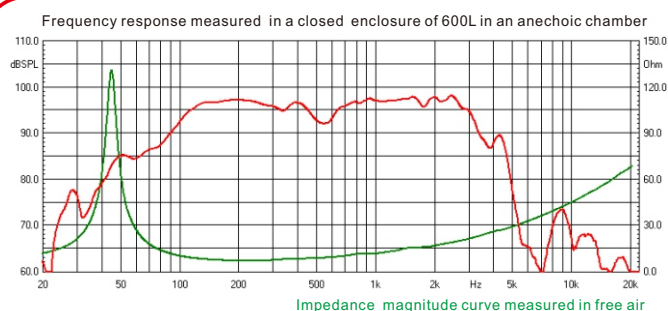
## THIELE - SMALL PARAMETERS<sup>5</sup>

Resonance frequency	Fs	45 Hz
DC resistance	Re	5.4 ohm
Mechanical factor	Qms	8.2
Electrical factor	Qes	0.35
Total factor	Qts	0.34
Mechanical compliance	Cms	0.20 mm/N
Mechanical resistance of total-driver losses	Rms	2.11 kg/s
Effective Moving Mass	Mms	61.8 g
Half-space efficiency	Eff	2.11%
BL Factor	BL	16.3 T.m
Equivalent Cas air load	Vas	86 liters
Effective piston area	Sd	0.0552m <sup>2</sup>
Max. linear excursion <sup>6</sup>	Xmax	± 7 mm
Max. excursion before damage	Xdam	±17.7mm
Voice coil inductance(1kHz)	Le	1.1 mH
Efficiency Bandwidth Product	EBP	128

## 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	3.8 liters
Net Weight	7.7 kg
Shipping Weight	8.4 kg
Shipping Box	345x345x180mm

Also available in 16ohm, data upon request.



## 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 BEFORE preconditioning test.
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.
7. Vb: Net internal volume of box after subtracting the volume of internal objects.