

Technical Specification

1. Product Description

ED15001 is a 15 inch aluminum frame high-power woofer, which is suitable for the medium bass professional speakers.

2. Technical Parameters:

(1).Nominal Diameter : 390mm (15inch)

(7).Lowest Resonance Frequency : $43\pm 5\text{Hz}$

(2).DC Resistance : $5.6\pm 0.28\Omega$

(8).Frequency Response: 43Hz-3KHz

(3).Rated Impedance : 8Ω

(9).Voice Coil Diameter: 75.55mm

(4).Minimum Impedance : 7Ω

(10).Voice Coil Material: Copper Oblate Wire

(5).Power Tolerance Capacity:

(11).Material of Voice Coil Framework: GFB-P

Rated Power: 350W (5.6Ω)

(12).Volume of Voice Coil: 17.4mm

Peak Power: 1400W (5.6Ω)

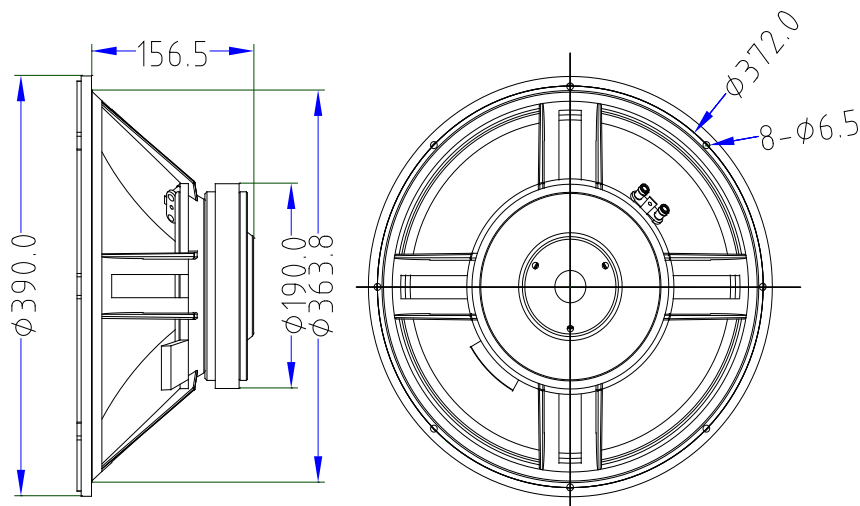
(13).Magnet Gap Depth: 10mm

(6).Sensitivity(1W/1m) : $96\pm 2\text{dB}$

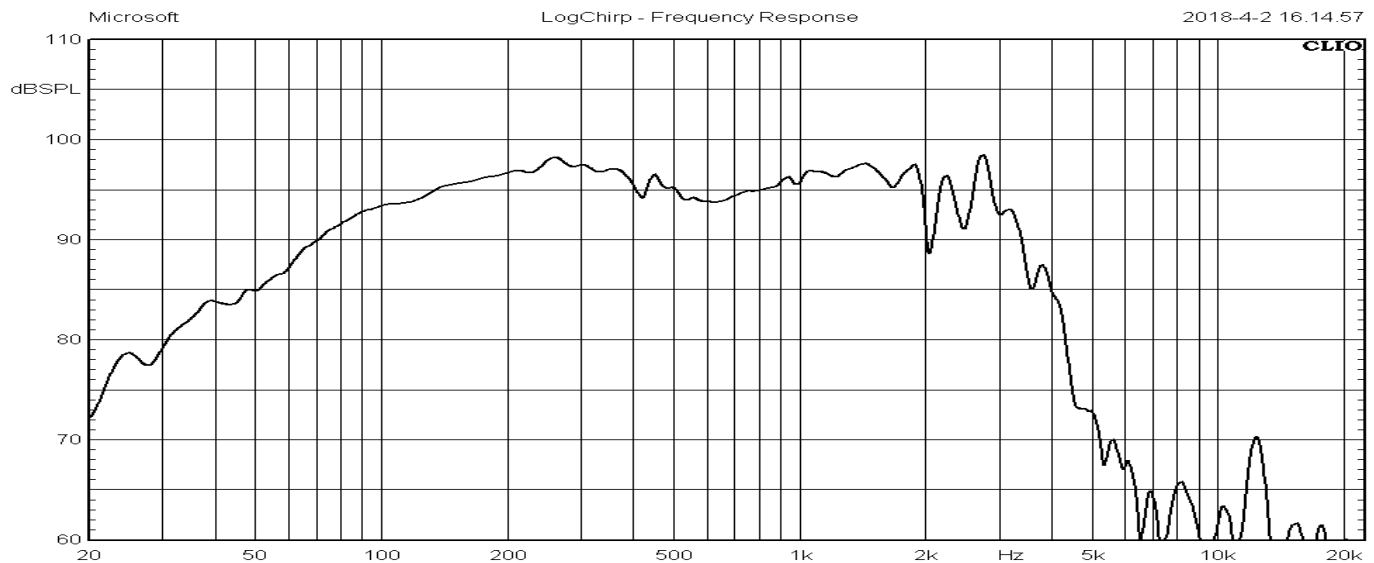
(14).Flux Density: 1.05T

(15).Weight: 7.5kg

3. Drawing

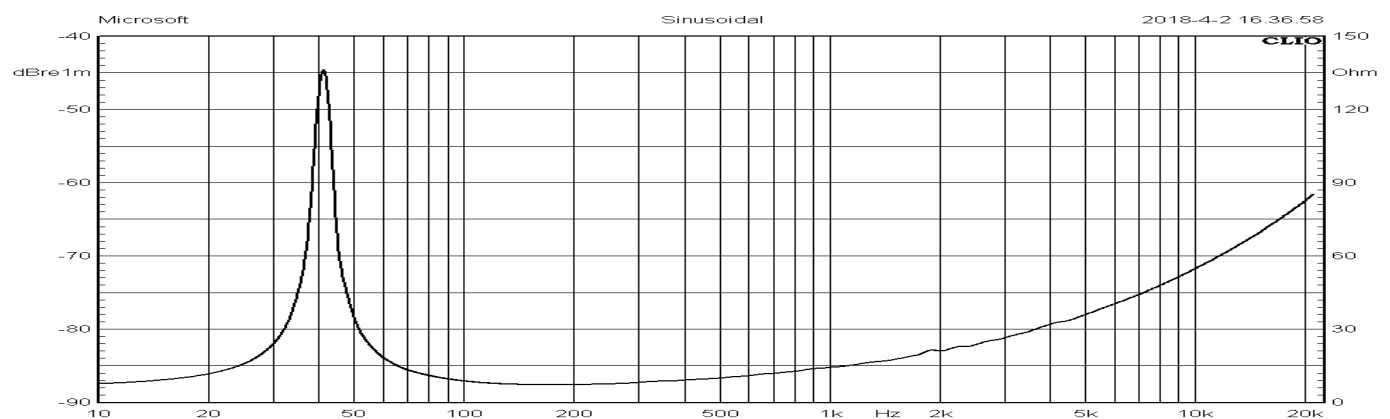


Frequency Response (test environment : anechoic chamber CLIO tester 1M/1W)



Impedance curve and TS parameter (test environment : anechoic chamber CLIO tester 1W ,

Effective vibration diameter:330mm)



F_S	43.0267 Hz	V_{AS}	136.7984 L	R_E	5.6000 Ω
Q_{MS}	15.1917	Q_{ES}	0.4183	Q_{TS}	0.4071
$B \cdot l$	19.2300 T·m	dB_{SPL}	96.1810	S_D	0.0855 m ²
C_{MS}	0.1339 mm/N	M_{MS}	102.1684 g	R_{MS}	1.8181 Ω_M
C_{AS}	9.80E-7 m ⁵ /N	M_{AS}	13.97 kg/m ⁴	R_{AS}	249 Ω_A
C_{MES}	276.2861 μ F	L_{CES}	49.5227 mH	R_{ES}	203.3903 Ω
R_{AT}	9275 Ω_A	R_{MT}	67.8525 Ω_M	M_{MD}	88.0107 g
Z_{MIN}	6.9653 Ω	Z_{MAX}	208.9903 Ω	Z_{AVG}	26.6982 Ω
η_0	2.5009 %	L_{1kHz}	1.3022 mH	L_{10kHz}	0.6635 mH