

CQ76 New Type Hi-Fi Ribbon Tweeter

INTRODUCTION

The CQ76 new type ribbon loudspeaker is BoZhen new audio lab's milestone research achievement. Its unique design is totally different from those traditional ribbon speakers. With a combination of specific designed hybrid ribbon dynamic motion structure and unique design of separate high strength voice coil and diaphragm, it possesses advantages below:

- The vibration unit of CQ76 adopts high strength structure that owns a high f_H and could keep accurate piston motion in a fairly wide range covering middle and high frequency, thus the CQ76 could keep a flat response and high fidelity within a wide range.
- The CQ76 adopts narrow voice coil in an one-piece type integrated structure that features high resistance to high strength short-time electric pulse force, thus characterized by high power handling, low distortion, good transient response and audible quality.
- The CQ76 adopts a wide diaphragm and high compliance surround thus possesses a low f_L and is capable of being easy to match with large caliber woofers to make a 2-way HIFI system.

TECHNICAL PARAMETERS

SPL	1500Hz ~ 20000Hz (±2 dB) 20000Hz ~ 32000Hz (±3.5 dB)
F0	450Hz (±15%)
Cross Point	>=1500Hz (reliable)
Rated Power¹	25VA
Impedance²	6 Ω (±10%)
Sensitivity	91 dB @ 1W/1M
THD	1500Hz -- 15000Hz < 1% 15000Hz -- 32000Hz < 6%
Weight	1250 g
Dimension	98*105*120(mm)

Note:

[1]: 3 minutes intermittent(1 min on, 2 min off) sine wave (1.5 ~ 15 KHz sweep signal) power tested at 25°C and repeat it 10 cycles without any performance degradation.

[2]: The input impedance could be customized to order.



Fig1 CQ76 Front View

TEST DATA

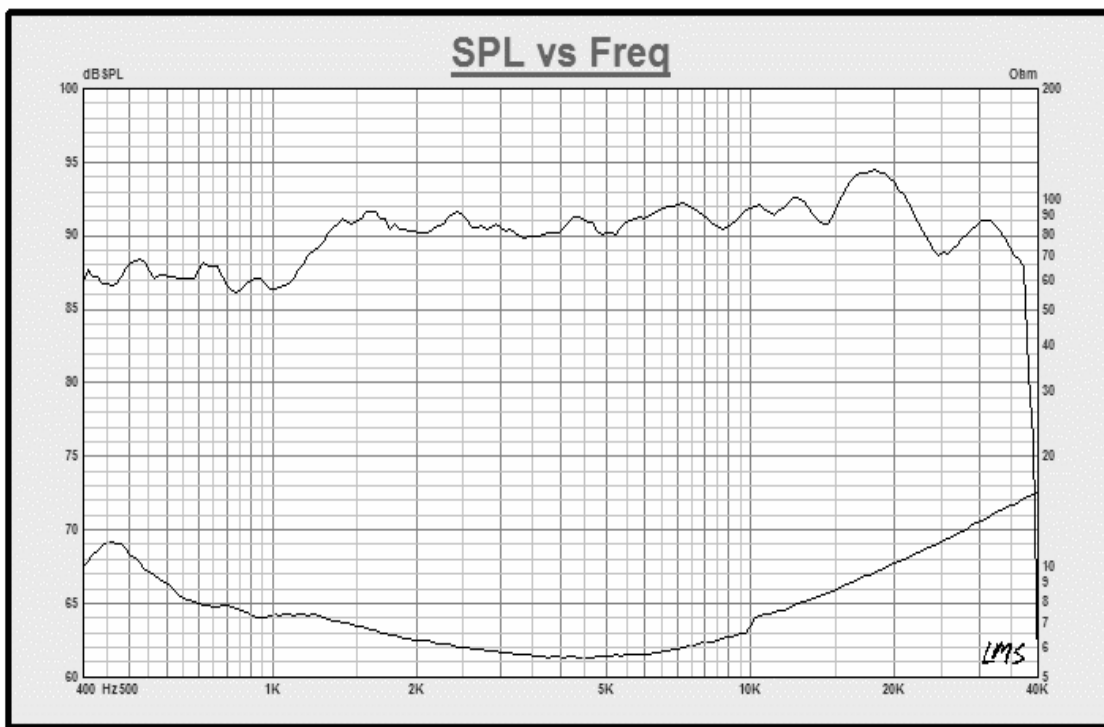


Fig2 LMS SPL and IMP curve

Harmonics

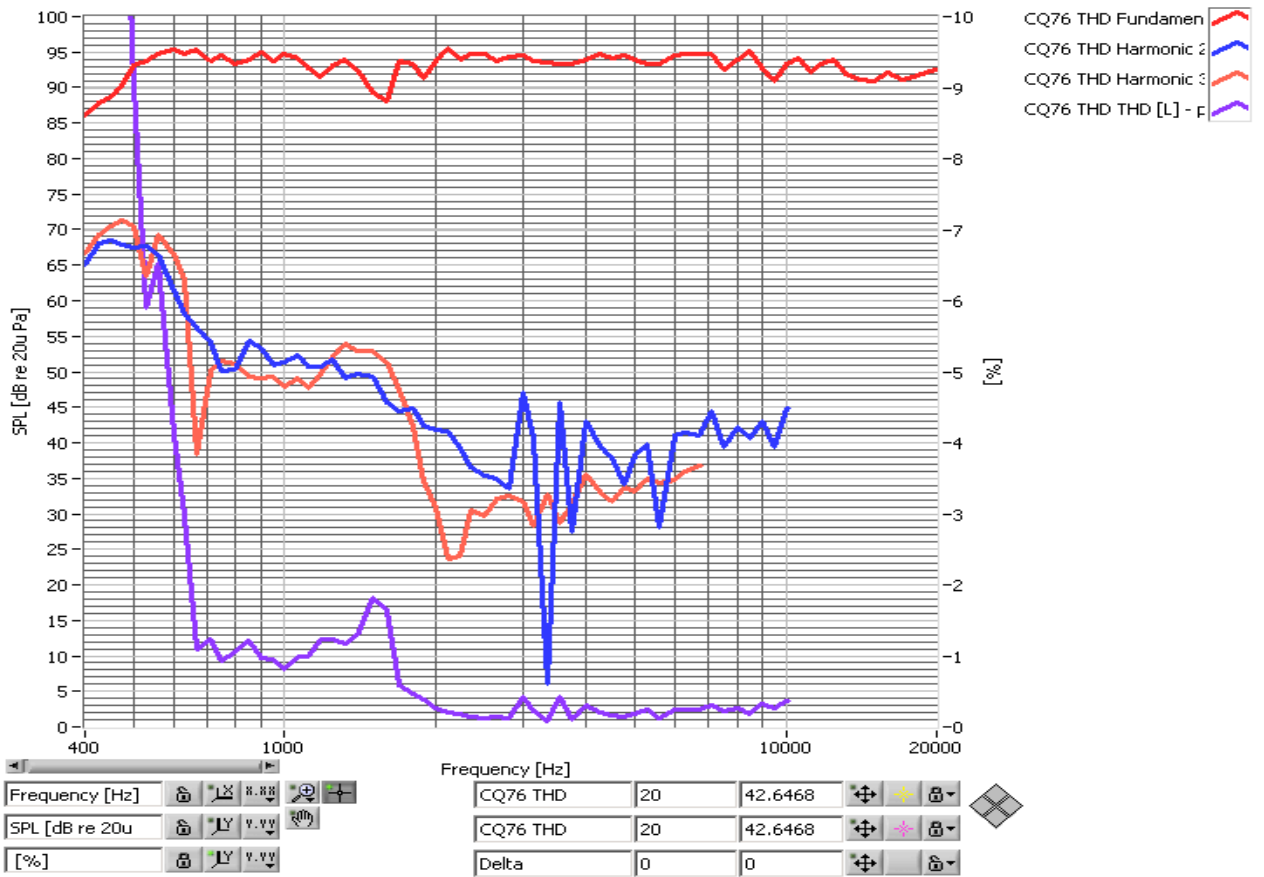


Fig3 SoundCheck THD and 2nd 3rd Curves