



ABox260 is a small anechoic box fitted with modified ITU-T P.57 Type 3.2 simplified pinna simulator. It uses IEC711 artificial ear coupler for testing ear-speakers in the factory environments. ABox260 meets the ITU-T Rec. P.57 Artificial Ear Type 3.2 high-leak requirements.

The box is made of aluminum plate. The internal surface is fitted with BASOTECT sound absorption material. Type 3.2 simulator is fitted on top of the box. The Device Under Test (DUT) can be installed on simulator via the application adaptor.

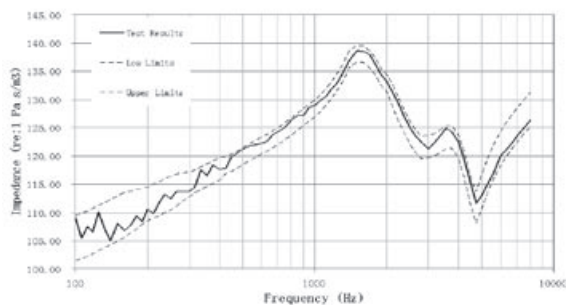
To reduce the environmental noise, a silencer is specially designed. A linear bearing was used to move the silencer vertically. The DUT will be inside the silencer during the testing.

The pin-connectors are integrated with the silencer. When the silencer is pressed down, the pins will connect to the DUT to perform the testing. The pins also provide the 5-10 N force to the DUT.



SPECIFICATIONS

Ear Speaker Testing Box ABox260	
Standards	ITU-T Rec. P.57 and IEC60711
Size (mm)	260 x 250 x 500
Artificial Ear	AE711 with Pressure Microphone MP253 and MA221
Pinna Simulator	Type 3.2 High Leak
Calibration Parameter	Acoustical Input Impedance
Application Adaptor	Customized design
Force on the DUT	5 ~ 10 N
Weight	8 kg



Acoustical Input Impedance Results of ABox260

FEATURES

- Designed according to ITU-T Recommendation. P.57 “Artificial Ear” (11/2005) Type 3.2 with high-leak simplified pinna simulator.
- Specially designed anechoic box for artificial ear.
- Specially designed silencer to reduce factory noise influence.

APPLICATIONS

- High volume ear-speaker testing based on Type 3.2 high leak ear in factory environments.
- Other product testing which requires Type 3.2 high leak ear

Acoustical Input Impedance

ITU-T P.57 specified the acoustic input impedance of Type3.2 high leak ear. Each box was tested for the impedance and the typical results are shown in the figure.