

GRAS 43BB-1

Low-noise Ear Simulator System



Volume: 1260 mm³ @ 500 Hz
Dyn range: 10.5 dB(A) to 113 dB
Based on IEC 60318-4

The 43BB-1 Low-noise Ear Simulator System is for acoustic low noise measurements on insert headphones, especially headphones with active noise cancellation. It is based on the IEC 60318-4 ear simulator standard. 43BB-1 Low-noise Ear Simulator System" includes a GRAS 12HF 1-Channel Power Module for Low-noise Systems. 43BB is shown in the product picture. For more information about 43BB-1 read the product introduction below.

Introduction

The GRAS 43BB-1 is a low-noise, high-sensitive ear simulator system for measurements of sound pressure levels close to or below the threshold of human hearing.

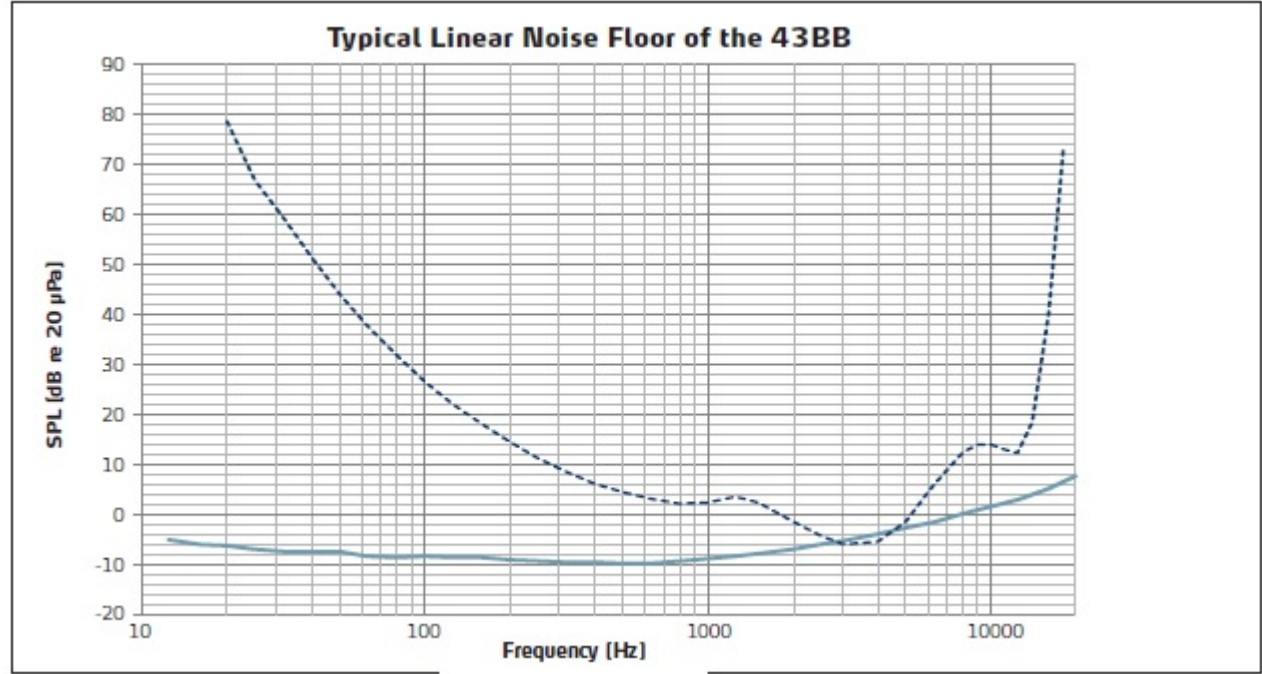
It is identical to the 43BB Low-noise Ear Simulator System except that it uses a 90-degree angled adapter for the preamplifier, and therefore can be used in binaural setups inside a 45BB KEMAR or a 45BC.

43BB-1 is part of the [45BB-12 KEMAR](#) with Anthropometric Pinna for Low-noise Ear- and Headphone Test 2-Ch LEMO, and [45BC-12 KEMAR](#) with Mouth Simulator and Anthropometric Pinnae for Low-noise Headset Test, 2-Ch LEMO.

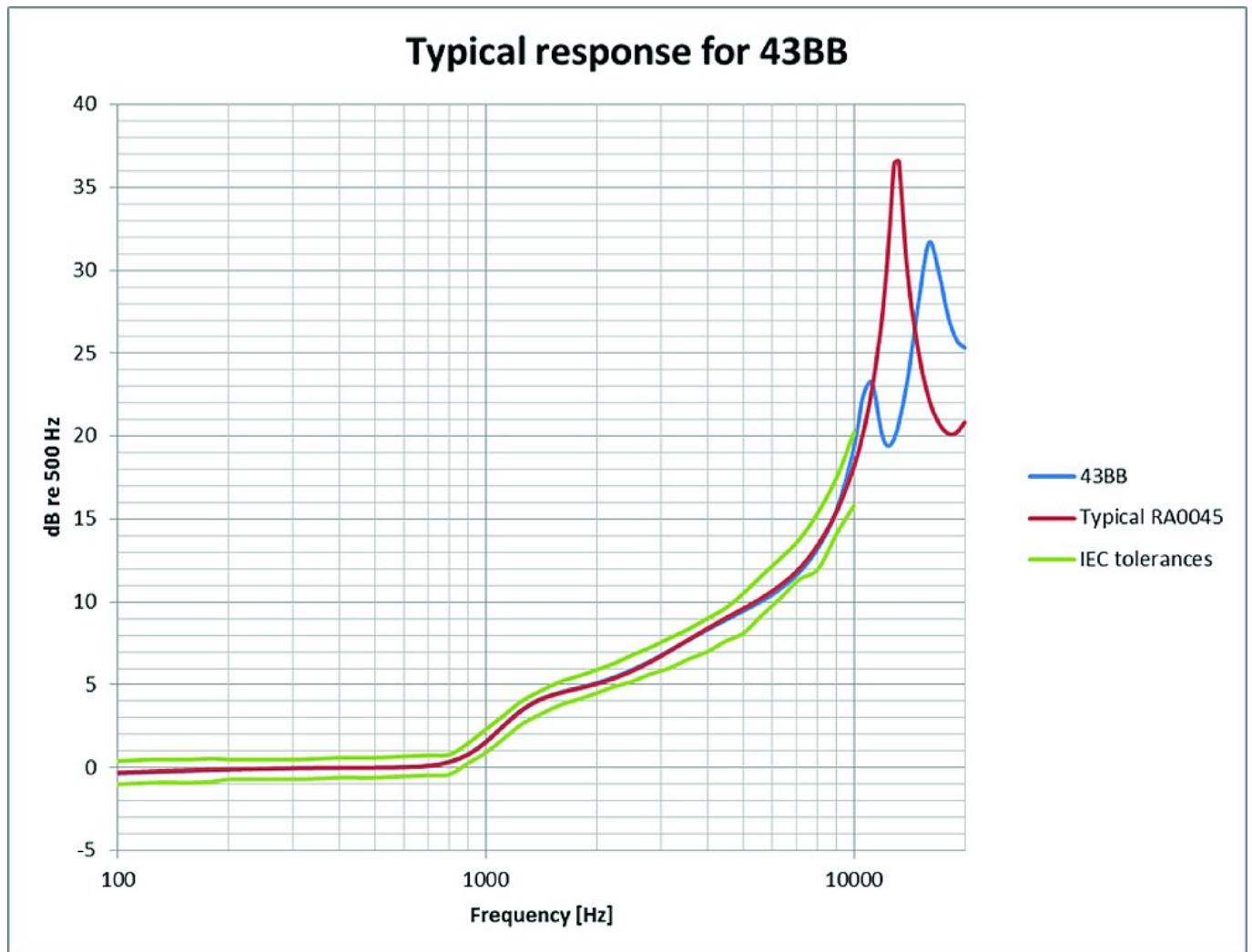
Read about the 43BB [here](#).

Connector type		3 m 7-pin LEMO
Polarization/Connection		0 V / CCP
Theoretical dynamic range lower limit with GRAS preamplifier	dB(A)	10.5
Theoretical dynamic range upper limit with GRAS preamplifier @ +28 V / ±14 V power supply	dB	113
Coupler volume	mm ³	1260 @ 500 Hz
CE/RoHS compliant/WEEE registered		Yes/Yes/Yes

Noise floor and frequency response for 43BB-1 is identical to the 43BB:



The noise floor (solid line) is typically below the threshold of human hearing (dashed line).



The frequency response is very similar to the standard 60318-4 ear simulator up to 10 kHz

GRAS Sound & Vibration reserves the right to change specifications and accessories without notice.

Included Items

GRAS RA0234	Low-noise Ear Simulator
GRAS 40AH	1/2" Ext. Polarized Pressure Microphone, High Sensitivity
GRAS 26HG	1/4" Preamplifier with 3 m Integrated Cable
GRAS 26HT	Gain and Filter Unit for 40HT
GRAS 12HF	1-Channel Power Module for Low-noise Systems

Accessories

GRAS 42AA	Pistonphone, Class 1
GRAS 42AP	Intelligent Pistonphone, Class 0
GRAS RA0090	94 dB Pistonphone Coupler
GRAS RA0237	Straight Ear Canal Extension Kit for KEMAR
GRAS RA0172	Pinna Holder Kit
GRAS AA0046	3 m LEMO 7-pin - LEMO 7-pin Cable for Low-noise measuring system
GRAS AA0047	10 m LEMO 7-pin - LEMO 7-pin Cable for Low-noise measuring system

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About GRAS Sound & Vibration

GRAS is a worldwide leader in the sound and vibration industry. We develop and manufacture state-of-the-art measurement microphones and related equipment for industries where acoustic measuring accuracy and repeatability are of the utmost importance. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, consumer electronics and other highly demanding industries. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect, trust and require.

GRAS Sound & Vibration is represented through subsidiaries and distributors in more than 40 countries and is part of Axiometrix Solutions, a leading test solutions provider comprised of globally recognized measurement brands. Read more at www.grasacoustics.com

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