

# GRAS 45BB-12

KEMAR

2 LEMO



200 V/LEMO

2

ANSI: S3.36

IEC 60318-7

ITU-T Rec. P.58

45BB-12 KEMAR

[GRAS 45BB-11](#)

1 LEMO



KEMAR Knowles 1972  
[KEMAR.us](#) ANSI  
S3.36/ASA58-2012 IEC 60318-7:2011

KEMAR KEMAR GRAS

45BB KEMAR 45BB KEMAR  
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KEMAR



45BB-12 KEMAR THD Rub & Buzz  
USB 45BB-12 KEMAR

45BB-12 GRAS 43BB KB5000/KB5001

43BB

43BB IEC 60318-4 (711) 40HT  
40AH

10 kHz IEC 60318-4 10 kHz  
13.5 kHz Q Q

26HG GRAS 26AC ¼ 40 G  
7 LEMO 26HT  
12HF

43BB

35 Shore 00

KEMAR

KEMAR  
DUT

45BB-12

10 kHz

KEMAR

2

KEMAR 5 6

Connector type		7-pin LEMO (FGG.1B.307)
Set sensitivity @ 250 Hz ( $\pm 2$ dB)	mV/Pa	800
Theoretical dynamic range lower limit with GRAS preamplifier	dB(A)	10.5
Theoretical dynamic range upper limit with GRAS preamplifier @ +28 V / $\pm 14$ V power supply	dB	113
Temperature range, operation	$^{\circ}\text{C}$ / $^{\circ}\text{F}$	-30 to 60 / -22 to 140
Temperature range, storage	$^{\circ}\text{C}$ / $^{\circ}\text{F}$	-40 to 65 / -40 to 149
Humidity range non condensing	% RH	0 to 95%
ANSI standard		S3.36, S3.25
IEC standard		60318-4 (former 60711), 60318-7 (former 60959)
ITU-T recommendations		P. 58
Weight	g / oz	11.45 k / 404

## GRAS Sound & Vibration



<a href="#">GRAS 45BB</a>	KEMAR Head & Torso, Non-configured
<a href="#">GRAS KB5000</a>	Large Right Anthropometric Pinna 35 Shore 00
<a href="#">GRAS KB5001</a>	Large Left Anthropometric Pinna 35 Shore 00
GRAS GR1874	Ear Simulator Holder
GRAS AA0035	BNC Cable, 3 m (2 pcs)
<a href="#">GRAS 43BB-1</a>	Low-noise Ear Simulator System (2 pcs), each comprising:
GRAS GR0408	External Ear Canal
GRAS GR0409	Union Nut
GRAS RA0234	Low-noise Ear Simulator
GRAS 26HG	1/4" Preamplifier, with 3 m Cable
GRAS 26HT	Filter and Gain Unit
GRAS 12HF	Power Module
<a href="#">GRAS RA0001</a>	Right Angled Adapter for 1/2" Microphone and 1/4" Preamplifier
<a href="#">GRAS AA0059</a>	LEMO 7-pin - LEMO 7-pin Cable, 1 m



<a href="#">GRAS 42AP</a>	Intelligent Pistonphone (250 Hz or 251.2 Hz, 114 dB +/- 0.05 dB)
<a href="#">GRAS 42AA</a>	Pistonphone (250 Hz, 114 dB +/- 0.08 dB)
<a href="#">GRAS RA0090</a>	94 dB Pistonphone Coupler



<a href="#">GRAS KB0060</a>	KEMAR Small Right Ear 55 Shore 00
<a href="#">GRAS KB0061</a>	KEMAR Small Left Ear 55 Shore 00
<a href="#">GRAS KB0065</a>	KEMAR Large Right Ear 55 Shore 00
<a href="#">GRAS KB0066</a>	KEMAR Large Left Ear 55 Shore 00

<a href="#">GRAS KB1060</a>	KEMAR Small Right Ear, 35 Shore 00
<a href="#">GRAS KB1061</a>	KEMAR Small Left Ear 35 Shore 00
<a href="#">GRAS KB1065</a>	KEMAR Large Right Ear 35 Shore 00
<a href="#">GRAS KB1066</a>	KEMAR Large Left Ear 35 Shore 00
<a href="#">GRAS KB0090</a>	KEMAR Large Right Ear (VA-Style/SQ) 55 Shore 00
<a href="#">GRAS KB0091</a>	KEMAR Large Left Ear (VA-Style/SQ) 55 Shore 00
<a href="#">GRAS KB1090</a>	KEMAR Large Right Ear (VA-Style) 35 Shore 00
<a href="#">GRAS KB1091</a>	KEMAR Large Left Ear (VA-Style) 35 Shore 00

## Ear Mould Simulators

<a href="#">GRAS KB0110</a>	Ear Mould Simulator for 2 mm Inner diameter tubing
<a href="#">GRAS KB0111</a>	Ear Mould Simulator for 3 mm Inner diameter tubing

## Ear Canal Extension Kits (2mm O.D.)

<a href="#">GRAS RA0237</a>	Straight Ear Canal Extension Kit for KEMAR
<a href="#">GRAS RA0238</a>	VA-tapered Ear Canal Extension Kit for KEMAR
<a href="#">GRAS RA0239</a>	Ear canal Extension Kit w. silicone lining for KEMAR
<a href="#">GRAS RA0240</a>	Holder for long 1/2" microphone Kit for KEMAR
<a href="#">GRAS RA0241</a>	Holder for short 1/2" microphone Kit for KEMAR
<a href="#">GRAS RA0243</a>	Holder for 1/2" microphone Kit for KEMAR
<a href="#">GRAS RA0244</a>	O-ring kit for KEMAR, 2 pcs.
<a href="#">GRAS RA0249</a>	Straight Ear Canal Extension Kit for KEMAR, made of POM, for binaural hearing aid test
<a href="#">GRAS RA0250</a>	Tapered Ear Canal Extension Kit for KEMAR, made of POM, for binaural hearing aid test

## KEMAR Retrofit Kits

<a href="#">GRAS RA0251</a>	KEMAR Retrofit Kit for Binaural Hearing Aid Test: The Kit includes Ear Holder Plates, mounting bolts and the RA0249 and RA0250 Ear Canal Extension Kits. Included items are made of POM, Nylon and Teflon.
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<a href="#">GRAS AA0046</a>	3 m LEMO 7-pin - LEMO 7-pin Cable for Low-noise measuring system
<a href="#">GRAS AA0047</a>	10 m LEMO 7-pin - LEMO 7-pin Cable for Low-noise measuring system



GRAS KM0094	PELI Case for KEMAR
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## **KEMAR**

GRAS KB3000	Simulation Model of KEMAR with large pinnae
GRAS KB3001	Simulation Model of KEMAR with small pinnae

## **KEMAR**

GRAS AL0026	Loudspeaker stand for KEMAR, Ø 35 mm
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GRAS KB0000	KEMAR Handbook
GRAS KB0010	T-Shirt for KEMAR

GRAS Sound & Vibration

# GRAS Worldwide

Subsidiaries and distributors in more  
than 40 countries

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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](http://www.grasacoustics.com)

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