

# GRAS 45BB-9

KEMAR

2 LEMO



(200 V/LEMO)

2

ANSI S3.36, S3.25

IEC 60318-4

ITU-T P.57.3.3 ITU-T P.58

45BB-9 KEMAR

[GRAS 45BB-10 KEMAR](#)

CCP

2 CCP

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

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USB

45BB-9 IEC 60318-4 GRAS RA0045  
KB5000/KB5001

*IEC 60318-4*

RA0045

IEC 60318-4 ITU-T P.57

GRAS 40AG 1/2

RA0045

35 Shore 00

KEMAR

KEMAR  
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# Specifications

**GRAS 45BB-9 KEMAR**  
**2 LEMO**

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Connector type		3 m 7-pin LEMO
Set sensitivity @ 250 Hz ( $\pm 2$ dB)	mV/Pa	12.5
Set sensitivity @ 250 Hz ( $\pm 2$ dB)	dB re 1V/Pa	-38.5
Theoretical dynamic range lower limit with GRAS preamplifier	dB(A)	25
Theoretical dynamic range upper limit with GRAS preamplifier @ +28 V / $\pm 14$ V power supply	dB	151
Theoretical dynamic range upper limit with GRAS preamplifier @ +120 V / $\pm 60$ V power supply	dB	163
Resonance frequency	kHz	13.5
Temperature range, operation	°C / °F	-30 to 60 / -22 to 140
Temperature range, storage	°C / °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.380
Weight	g / oz	11.45 k / 404

GRAS Sound & Vibration

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<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
<a href="#">GRAS RA0045</a>	IEC 60318-4 Ear Simulator (2 pcs)
GRAS GR1874	Ear Simulator Holder
GRAS GR0408	External Ear Canal
GRAS GR0409	Union Nut
GRAS 26AS-S3	1/4" Preamplifier, Short version with 0.4 m Cable (2 pcs)
<a href="#">GRAS GR0010</a>	Adapter for 1/2" Microphone and 1/4" Preamplifier (2 pcs)
<a href="#">GRAS AA0008</a>	LEMO 7-pin - LEMO 7-pin Cable, 3 m (2 pcs)

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A horizontal row of 15 empty rectangular boxes, intended for children to draw or write in.

<a href="#">GRAS 12AK</a>	1-Channel Power Module with gain, filters and SysCheck generator
<a href="#">GRAS 12AD</a>	1-Channel Power Module
<a href="#">GRAS 12AA</a>	2-Channel Power Module with gain, filters and SysCheck generator
<a href="#">GRAS 12AR</a>	2-Channel Power Module
<a href="#">GRAS 12AQ</a>	2-Channel Universal Power Module with signal conditioning and PC interface

ANSWER

<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)

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<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

## 耳模

<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

## 耳道模拟器 (耳模2000)

<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 耳道模拟器

## [GRAS RA0251](#)

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.



## [GRAS AA0008](#)

LEMO 7-pin - LEMO 7-pin Cable, 3 m

## [GRAS AA0009](#)

LEMO 7-pin - LEMO 7-pin Cable, 10 m



## [GRAS KM0094](#)

PELI Case for KEMAR

## **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



## [GRAS KB0000](#)

KEMAR Handbook

## [GRAS KB0010](#)

T-Shirt for KEMAR

## GRAS Sound & Vibration

# GRAS Worldwide

Subsidiaries and distributors in more than 40 countries

## HEAD OFFICE, DENMARK

**GRAS SOUND & VIBRATION**  
Skovlytoften 33  
2840 Holte  
Denmark  
Tel: +45 4566 4046  
[www.GRASacoustics.com](http://www.GRASacoustics.com)  
[gras@grasacoustics.com](mailto:gras@grasacoustics.com)

## USA

**GRAS SOUND & VIBRATION**  
9290 SW Nimbus Avenue  
Beaverton, OR 97008  
Tel: 503-627-0832  
Toll Free: 800-231-7350  
[www.GRASacoustics.com](http://www.GRASacoustics.com)  
[sales-usa@grasacoustics.com](mailto:sales-usa@grasacoustics.com)

## UK

**GRAS SOUND & VIBRATION**  
Unit 115, Gibson House,  
Ermine Business Park, Huntingdon,  
Cambridgeshire, PE29 6XU  
Tel: +44 (0) 7762 584 202  
[www.GRASacoustics.com](http://www.GRASacoustics.com)  
[sales-uk@grasacoustics.com](mailto:sales-uk@grasacoustics.com)

## CHINA

**GRAS SOUND & VIBRATION**  
Room 315, RuiBo Center(T1)  
Lane683, Shenhong Rd,  
Minhang District,  
Shanghai, China, 201107  
Tel: +86 21 64203370  
[www.GRASacoustics.cn](http://www.GRASacoustics.cn)  
[cnsales@grasacoustics.com](mailto:cnsales@grasacoustics.com)



## 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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