GRAS 45BB-5

2 LEMO





(200 V/LEMO)

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ANSI S3.36, S3.25 IEC 60318-4

ITU-T P.57 3.3 ITU-T P.58

45BB-5 KEMAR KEMAR

2-Ch LEMO

IEC 60318-4

CCP

GRAS 45BB-6 KEMAR 2 CCP



KEMAR Knowles 1972

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S3.36/ASA58-2012 IEC 60318-7:2011

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55 Shore

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USB

45BB-5 IEC 60318-4 GRAS RA0045

KB0065/KB0066

IEC 60318-4

RA0045

IEC 60318-4 ITU-T P.57

RA0045

Read more about RA0045 here.

KB0065/KB0066

KB0065 KB0066

55 Shore 00 IEC

ITU-T

2 **KEMAR**

KEMAR

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Specifications

Connector type		7-pin LEMO (FGG.1B.307)
Set sensitivity @ 250 Hz (±2 dB)	mV/Pa	12.5
Set sensitivity @ 250 Hz (±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 / ±14 V power supply	dB	151
Theoretical dynamic range upper limit with GRAS preamplifier @ +120 V / ±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 recommondations		P.380
Weight	g / oz	11.45 k / 404

GRAS Sound & Vibration



GRAS 45BB	KEMAR Head & Torso, Non-configured
GRAS KB0065	KEMAR Large Right Ear 55 Shore 00
GRAS KB0066	KEMAR Large Left Ear 55 Shore 00
GRAS RA0237	Straight Ear Canal Extension Kit (2 pcs)
GRAS RA0045	IEC 60318-4 Ear Simulator (2 pcs)
GRAS GR0408	Exterior Ear Canal (2 pcs)
GRAS GR0409	Union Nut (2 pcs)
GRAS 26AS-S3	1/4" Preamplifier, Short version with 0.4 m Cable (2 pcs)
GRAS GR0010	Adapter for 1/2" Microphone and 1/4" Preamplifier (2 pcs)
<u>GRAS AA0008</u>	LEMO 7-pin - LEMO 7-pin Cable, 3 m (2 pcs)

GRAS 12AK	1-Channel Power Module with gain, filters and SysCheck generator
GRAS 12AD	1-Channel Power Module
GRAS 12AA	2-Channel Power Module with gain, filters and SysCheck generator
GRAS 12AR	2-Channel Power Module
GRAS 12AQ	2-Channel Universal Power Module with signal conditioning and PC interface

GRAS 42AP	Intelligent Pistonphone (250 Hz or 251.2 Hz, 114 dB +/- 0.05 dB)	
GRAS 42AA	Pistonphone (250 Hz, 114 dB +/- 0.08 dB)	
GRAS RA0157	1/2" Calibration Adapter for KEMAR Pinna	

GRAS KB0060	KEMAR Small Right Ear 55 Shore 00



<u>GRAS KB0061</u>	KEMAR Small Left Ear 55 Shore 00
GRAS KB0065	KEMAR Large Right Ear 55 Shore 00
GRAS KB0066	KEMAR Large Left Ear 55 Shore 00
GRAS KB1060	KEMAR Small Right Ear, 35 Shore 00
GRAS KB1061	KEMAR Small Left Ear 35 Shore 00
GRAS KB1065	KEMAR Large Right Ear 35 Shore 00
GRAS KB1066	KEMAR Large Left Ear 35 Shore 00
<u>GRAS KB0090</u>	KEMAR Large Right Ear (VA-Style/SQ) 55 Shore 00
<u>GRAS KB0091</u>	KEMAR Large Left Ear (VA-Style/SQ) 55 Shore 00
<u>GRAS KB1090</u>	KEMAR Large Right Ear (VA-Style) 35 Shore 00
<u>GRAS KB1091</u>	KEMAR Large Left Ear (VA-Style) 35 Shore 00
<u>GRAS KB5000</u>	KEMAR Large Right Anthropometric Pinna 35 Shore 00
<u>GRAS KB5001</u>	KEMAR Large Left Anthropometric Pinna 35 Shore 00

<u>GRAS KB0110</u>	Ear Mould Simulator for 2 mm Inner diameter tubing
GRAS KB0111	Ear Mould Simulator for 3 mm Inner diameter tubing

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



Ordering info

KEMAR

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.

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KEMAR Retrofit Kit for Anthropometric Concha and Canal Pinna.

The Kit includes Ear Simulator Holder, 2 finger screws and a 3 mm Allen Key.

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

GRAS AA0009 LEMO 7-pin - LEMO 7-pin Cablee, 10 m

PELI Case for KEMAR

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GRAS k	(B3000
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Simulation Model of KEMAR with large pinnae

GRAS KB3001

Simulation Model of KEMAR with small pinnae

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Loudspeaker stand for KEMAR, Ø 35 mm

KEMAR Handbook

GRAS KB0010

T-Shirt for KEMAR

GRAS Sound & Vibration



GRAS Worldwide

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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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