

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



KEMAR Knowles 1972
[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
DUT

Connector type		3 m 7-pin LEMO
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	$^{\circ}\text{C}$ / $^{\circ}\text{F}$	-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.380
Weight	g / oz	11.45 k / 404

GRAS Sound & Vibration



GRAS 45BB	KEMAR Head & Torso, Non-configured
GRAS KB5000	Large Right Anthropometric Pinna 35 Shore 00
GRAS KB5001	Large Left Anthropometric Pinna 35 Shore 00
GRAS RA0045	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)
GRAS GR0010	Adapter for 1/2" Microphone and 1/4" Preamplifier (2 pcs)
GRAS AA0008	LEMO 7-pin - LEMO 7-pin Cable, 3 m (2 pcs)



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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 KB0060	KEMAR Small Right Ear 55 Shore 00
GRAS KB0061	KEMAR Small Left Ear 55 Shore 00

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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
GRAS KB0090	KEMAR Large Right Ear (VA-Style/SQ) 55 Shore 00
GRAS KB0091	KEMAR Large Left Ear (VA-Style/SQ) 55 Shore 00
GRAS KB1090	KEMAR Large Right Ear (VA-Style) 35 Shore 00
GRAS KB1091	KEMAR Large Left Ear (VA-Style) 35 Shore 00

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GRAS KB0110	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

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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[GRAS AA0008](#)

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

[GRAS AA0009](#)

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

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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

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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

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