GRAS 45BC





0 V/CCP 200 V/LEM0 2

ANSI: S3.36, S3.25 IEC: 60318-7

45BC KEMAR
GRAS 45BB KEMAR



KEMAR Knowles 1972 KEMAR.us GRAS KEMAR 1972 KEMAR 100% IEC 60318-4 KEMAR KEMAR 45BC KEMAR 45BB KEMAR 45BC KEMAR	43BB
45BC KEMAR IEC 60318-7 ANSI S3.36 S3.25 ITU-T P 58	IEC 60318-4 13.5 kHz 8-10 kHz IEC 60318-4 /
45BB KEMAR 45BB KEMAR □□ □□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□	IEC 60318-4 20 kHz <u>RA0401</u> GRAS <u>40AG</u> ½" 200 V 7-pin LEMO RA0402 GRAS <u>40A0</u> ½" CCP BNC
KEMAR (HATS) KEMAR KEMAR KEMAR	IEC 60318-4 50 kHz RA0403 GRAS GRAS 40BP 1/4" 200 V 7-pin LEMO RA0404 GRAS GRAS 40BD 1/4" CCP BNC
ITU-T Rec. P.58. MRP 25 100 Hz 10 kHz 100 dB re. 20 Pa 10 dB	KEMAR 55 Shore 00 (IEC 60959) 35 Shore 00 VA 55 Shore 00 35 Shore 00 KEMAR
IEC 60318-4 [] [] [] IEC 60318-4 GRAS IEC 60318-4:2007 " " ITU-T P. 57 (08/96) "P "	KEMAR 35 Shore 00
RA0045 GRAS 40AG ½" 200 V 7-pin LEMO RA0045-S1 GRAS 40AO ½" CCP BNC	GRAS POM IEC 60318-4 POM Ear Canal Extension Kit with standard pinna-extension
-	tube, θ 7.5 mm, 8.3 mm long. Standardized according to IEC60318-7. 2 pcs, 0-rings included.



GRAS RA0238	Ear Canal Extension Kit with tapered pinna-extension tube. Θ 9.85 tapering down to Θ 7.5 mm, 7.4 mm long. 2 pcs, 0-rings included.
GRAS RA0239	Ear Canal Extension Kit with silicone rubber lining, Ø 7.5 mm, 14 mm long. Standardized according to ANSI S12.42. 2 pcs, 0-rings included.
GRAS RA0249	Straight Earl Canal Extension Kit for KEMAR, Ø 7.5 mm, 8.3 mm long. Made of POM*. Standardized according to IEC60318-7. 2 pcs. 0-rings are included.
GRAS RA0250	Tapered Ear Canal Extension Kit for KEMAR. Made of POM*. 0 9.85 tapering down to 0 7.5 mm, 7.4 mm long. 2 pcs. 0-rings are included.

* KEMAR GRAS RA0251 RA0249 RA0250

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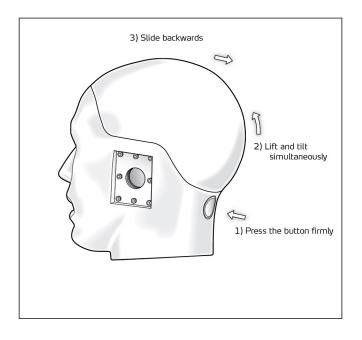
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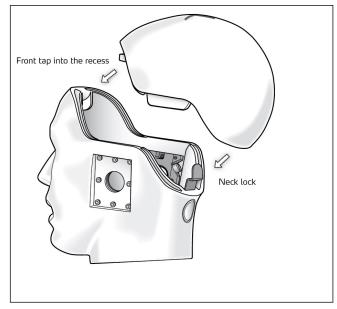
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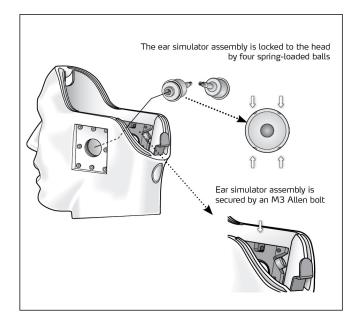
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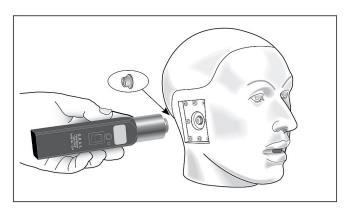


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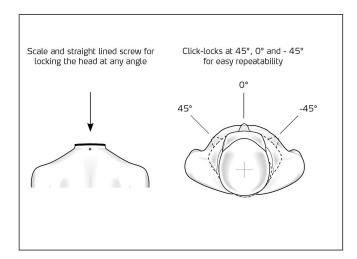


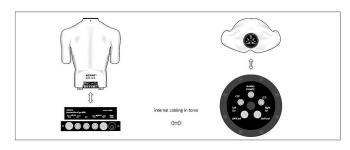




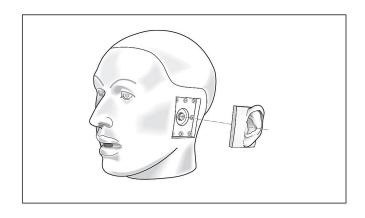








KEMAR



KEMAR 3/8" ø35

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KEMAR 45BC KEMAR

• 60318-4

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• ½ ¼



45BC-11 12 POM **KEMAR** LEM0 • 12 VA • 2 GRAS 45BC-11 KEMAR with Mouth Simulator and Anthropometric Pinnae for Low-noise Headset Test, 1-Ch LEMO **KEMAR** GRAS 45BC-12 KEMAR with Mouth Simulator and KEMAR Anthropometric Pinnae for Low-noise Headset Test, 2-Ch LEMO 45BC-13 14 35 Shore 00 20 **KEMAR** kHz LEMO CCP GRAS 45BC-13 KEMAR for High-Frequency Test of **KEMAR** Headsets, 2-Ch LEMO GRAS 45BC-14 KEMAR for High-Frequency Test of Headsets, 2-Ch CCP 6 45BC-15 16 45BC-1 2 35 Shore 00 50 KEMAR kHz LEMO CCP 60318-4 LEMO CCP 60318-4 55 Shore 00 GRAS 45BC-15 KEMAR for High-Frequency Test of Headsets, 2-Ch LEMO GRAS 45BC-1 KEMAR for Headset Test, 2-Ch LEMO GRAS 45BC-16 KEMAR for High-Frequency Test of GRAS 45BC-2 KEMAR for Headset Test, 2-Ch CCP Headsets, 2-Ch CCP 45BC-9 10 60318-4 45EA GRAS 45BC-3 KEMAR for Telephone Test, 1-Ch GRAS 45BC-9 KEMAR with Mouth Simulator and **LEMO** Anthropometric Pinnae for Headset Test, 2-Ch LEMO GRAS 45BC-4 KEMAR for Telephone Test, 1-Ch CCP GRAS 45BC-10 KEMAR with Mouth Simulator and Anthropometric Pinnae for Headset Test, 2-Ch CCP



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Specifications

Connector type		3 m 7-pin LEMO/BNC
Resonance frequency	kHz	Complex
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		60318-7
ITU-T recommondations		P. 58
Weight	g / oz	13 k / 459
MOUTH SIMULATOR		
Output impedance		8
Maximum power, continuous	W	10
Maximum power, pulsed 2 sec.	W	50
Input impedance	k	20
Gain	dB	10
Input signal, max.	Vrms	2
Power supply, external	Vdc	24

GRAS Sound & Vibration



GRAS 45BH-S1	KEMAR Head & Torso with GRAS mouth simulator, non-configured
GRAS 45BT-S1	KEMAR Torso
GRAS GR1589	Neck Extension Ring, 11 mm, 2 pcs
GRAS KB0010	T-Shirt
GRAS SW0005	USB Flash Drive with HRTF and Free-field corrections data
GRAS RA0188	Mouth Calibration Jig for KEMAR
GRAS AA0032	BNC-BNC Cable, 50 cm
GRAS AA0035	BNC-BNC Cable, 3 m
GRAS AB0012	Power supply for mouth simulator amplifier
GRAS KB0000	KEMAR Book
GRAS YY0018	Allen key, 2 mm
GRAS YY0013	Allen key, 4 mm
GRAS YY0039	Screwdriver, 5.5 mm
GRAS GR1573	Bottom plate with 3/8" thread for tripod
GRAS GR1602	Bottom plate with 35mm hole for loudspeaker stand (AL0026)

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 12AL	1-Channel CCP Power Module with A-weighting filter
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GRAS 12AQ 2-Channel Universal Power Module with signal conditioning and PC interface
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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

<u>GRAS KB0060</u>	KEMAR Small Right Ear 55 Shore 00
GRAS KB0061	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
<u>GRAS KB1060</u>	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
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
GRAS KB5000	KEMAR Large Right Anthropometric Pinna 35 Shore 00
GRAS KB5001	KEMAR Large Left Anthropometric Pinna 35 Shore 00

Ear Mould Simulators

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



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

<u>GRAS RA0251</u>	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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<u>GRAS AA0008</u>	LEMO 7-pin - LEMO 7-pin Cable, 3 m
GRAS AA0009	LEMO 7-pin - LEMO 7-pin Cablee, 10 m
GRAS AA0034	BNC-BNC Cable, 2 m
GRAS AA0035	BNC-BNC Cable, 3 m
GRAS AA0036	BNC-BNC Cable, 5 m
GRAS AA0037	BNC-BNC Cable, 10 m

GRAS KM0094	PELI Case for KEMAR

Simulation Model of KEMAR



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

$\textbf{KEMAR} \; [][]$

GRAS AL0026	Loudspeaker stand for KEMAR, & 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

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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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