GRAS RA0404

100 Hz to 10 kHz:	According to IEC 60318-4	GRAS RA0404		40BD 1/4"
10 kHz to 20 kHz:	± 2.2 dB		50 kHz	RA0403.
20 kHz to 50 kHz:	± 3.2 dB			
Volume:	1260 mm³ @ 500 Hz			
Sensitivity:	1.6 mV/Pa			
Damped resonance, with peak @ 13.5 kHz				

GRAS Sound & Vibration
Skovlytoften 33, 2840 Holte, Denmark
www.grasacoustics.com

□□

GRAS RA0404

RA0404 ¼

RA0404 IEC60318-4
10 kHz 10 kHz
13.5 kHz Q 10 kHz

RA0404 13.5 kHz 14 dB 10 kHz ¼" RA0404 50 kHz

IEC60318-4 IEC60318-4 10 kHz 10 kHz 20 kHz ±2.2 dB 20 kHz 50 kHz ±3.2 dB 50 kHz

IEC60318-4

KEMAR

GRAS RA0403.

□□

- IEC60318-4
- 10 kHz 20 kHz ± 2.2 dB
- 20 50 kHz ± 3.2 dB
- 13.5 kHz 14 dB
- 100 kHz

□□

-
- 10 kHz —— 10 kHz /
- 10 kHz 10 kHz
- 3-5 kHz

□□

RA0404

GRAS 40BD 1/4"

13.5 kHz Q 14 dB

50 kHz

□□□□□□□

RA0404
GRAS KEMAR

45CA □□□□□□□□□

RA0404 45CA
45CA-12 -
45CA-11 -

KEMAR

RA0404 RA0045-S1 RA0402 KEMAR

45BB-16 KEMAR 2-Ch CCP
45BC-16 KEMAR 2-Ch CCP

45BB-15 KEMAR 2 -Ch LEMO
45BC-15 KEMAR 2 -Ch LEMO

GRAS 43 □□□□□□□□□

RA0404 RA0045-S1 43AG
43AG-9 Anthro CCP.
43AG-8 Anthro LEMO
43AC
43AC-S6 LEMO 43AC-S7 CCP

□□□□□□□

60318-4 13.5 kHz
10 kHz
¼"

RA0404 10 kHz 10 kHz

RA0404

RA0404 KEMAR

RA0404

RA0404 45CA /

□□□

RA0404 CCP GRAS 26CB
GRAS 26CS 1/4"

RA0404

Specifications

Polarization/Connection		0 V / CCP
Theoretical dynamic range lower limit with GRAS preamplifier	dB(A)	44
Theoretical dynamic range upper limit with GRAS preamplifier @ +28 V / ±14 V power supply	dB	166
Set sensitivity @ 250 Hz (±3 dB)	mV/Pa	1,5 mV
Resonance frequency	kHz	13.5
Coupler volume	mm^3	1260 @ 500 Hz
Temperature range, operation	°C / °F	-30 to 60 / -22 to 140
Temperature coefficient @250 Hz	dB/°C / dB/°F	-0.01 / -0.006
Humidity range non condensing	% RH	0 to 90
ANSI standard		S3.7
IEC standard		Based on 60318-4
ITU-T recommondations		P.57
CE/RoHS compliant/WEEE registered		Yes/Yes, Yes
Weight	g / oz	44
Frequency Response	IEC60318-4 ± 2,2 dB ± 3,2 dB	100 Hz -13,5 kHz 10 kHz - 20 kHz 20 kHz - 50 kHz

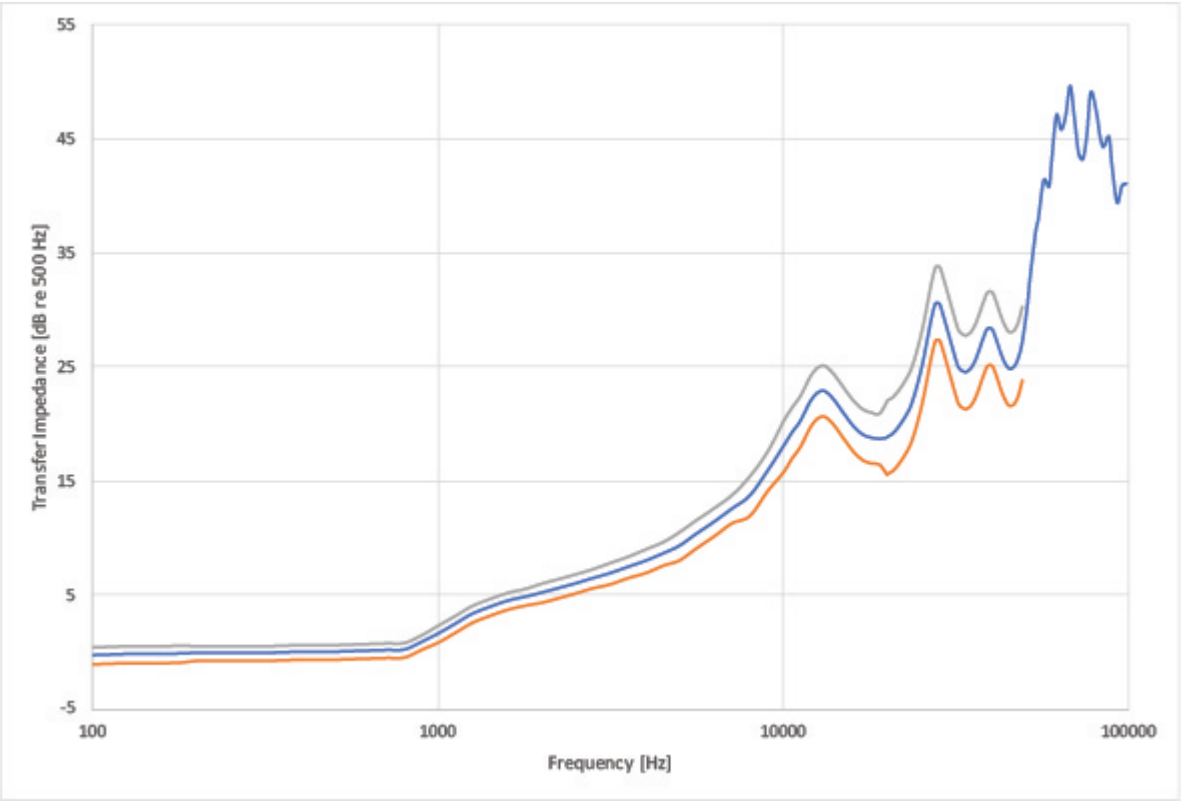
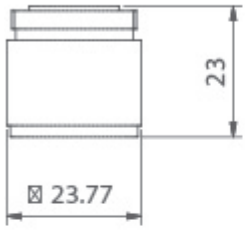
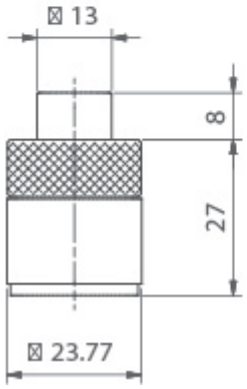


Fig 1. The transfer impedance of a typical RA0404 Hi-Res Ear Simulator with IEC and GRAS tolerances. Up to 10 kHz, the response is within the limits defined by IEC 60318-4. (red dotted curves). Above 10 kHz, the response is within a fairly tight tolerance band up to 50 kHz (green dotted lines).

Dimensions

Dimensions in mm





Optional items

GRAS RA0088	In Ear Adapter
GRAS GR0433	Calibration Adapter
GRAS GR0434	Stop Washer
GRAS GR0436	Tube Adapter
GRAS GR0437	Ear-mould Simulator
GRAS GR0438	Retention Ring
GRAS GR0440	Tube Adapter
GRAS 26CB	1/4'' Standard Preamplifier with Integrated BNC Connector
GRAS 26CS	1/4" CCP Preamplifier, Very Short

GRAS Sound & Vibration reserves the right to change specifications and accessories without notice.

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
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
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
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
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

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