GRAS 43AC-S7

Hi-Res Ear Simulator Kit CCP





Connection: 0 V/CCP Volume: 1260 @ 500 Hz Dyn range: 25 dB(A) to 153 dB ANSI: S3.7

ANSI: S3.7 IEC: 60318-4 The GRAS 43AC-S7 Ear Simulator Kit is a complete test-jig for hi-res measurements up to 50 kHz on earphones coupled to the ear by inserts such as tubes and earmolds.



Technology

The GRAS 43AC-S7 Ear Simulator Kit is a complete test jig for acoustically testing earphones coupled to the ear via inserts such as tubes and ear molds and is compatible with the following international requirements:

 IEC 60318-4: Occluded-ear simulator for the measurement of earphones coupled to the ear by ear inserts.

43AC-S7 uses the RA0404 Hi-Res Ear Simulator which extends the useful frequency range to 50 kHz. Read more abot the RA0404 here.

The 43AC-S7 comprises:

- GRAS RA0404 Prepolarized Hi-Res Ear Simulator
- GRAS 40BD 1/2" Pressure Microphone (included in RA0404)
- GRAS 26CB 1/4" Preamplifier
- GRAS RA0001 Right-angled Adapter
- GRAS RA0052 Test Jig

The Test Jig has an adjustable spring-loaded arm to exert a variable force on the test object.

An externally polarized version is available, <u>GRAS</u> 43AC-S6.



Specifications

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 (±2 dB)	mV/Pa	
Set sensitivity @ 250 Hz (±2 dB)	dB re 1V/Pa	
Set sensitivity @ 250 Hz (±3 dB)	mV/Pa	1,6
Coupler volume	mm³	1260 @ 500 Hz
Resonance frequency	kHz	13.5
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 75
ANSI standard		S3.7
IEC standard		60318-4 (former 60711)
CE/RoHS compliant/WEEE registered		Yes/Yes/Yes
Connector type		Microdot 10/32
Weight	g / oz	1550 / 54.675



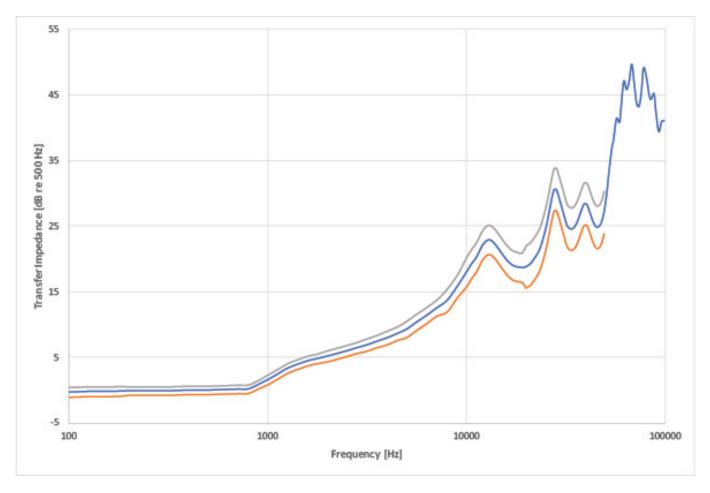


Fig 1. The transfer impedance of a typical RA0404 Hi-Res Ear Simulator with tolerances. Up to 10 kHz, the response is within the limits defined by IEC 60318-4. Above 10 kHz, the response is within a fairly tight tolerance band up to 50 kHz

Included

GRAS RA0404	Hi-Res Ear Simulator (prepolarized)
GRAS 26CB	¼" Preamplifier
GRAS RA0001	Right Angled Adapter
GRAS RA0052	Test Jig
GRAS GR0435	In-ear Adapter
GRAS GR0436	Tube stud
GRAS GR0437	Ear-mould Simulator
GRAS GR0438	Union nut
GRAS GR0440	Tube stud
GRAS GR0433	Calibration Adapter
GRAS GR0434	Stop Washer
GRAS MI0070	Cord 0.2 m

Optional

GRAS 12AK	Power Module
GRAS 42AA	Pistonphone

Miscellaneous

GRAS RA0196	High-tension springs (set of two)

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

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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 to industries where acoustic measuring accuracy and repeatability is of utmost importance in R&D, QA and production. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, and consumer electronics. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect and trust.

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