GRAS 43AC-S5

High-Frequency Ear Simulator Kit CCP



Connection: 0 V/CCP
Volume: 1260 @ 500 Hz
Dyn range: 25 dB(A) to 153 dB
ANSI: S3.7
IEC: 60318-4

The GRAS 43AC-S5 Ear Simulator Kit with TEDS is a complete test-jig for high-frequency measurements up to 20 kHz on earphones coupled to the ear by inserts such as tubes and ear moulds.

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The GRAS 43AC-S5 Ear Simulator Kit is a complete test jig for acoustically testing earphones coupled to the ear via inserts such as tubes and ear moulds and complies with the following international requirements:

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

43AC-S5 uses the RA0402 High Resolution Ear Simulator which extends the useful frequency range to 20 kHz. Read more abot the RA0402 here.

The 43AC-S5 comprises:

- GRAS RA0402 Prepolarized High Resolution Ear Simulator
- GRAS 40AO 1/2" Pressure Microphone (included in RA0402)
- GRAS 26CB 1/4" Preamplifier
- GRAS RA0001 Right-angled Adapter
- GRAS RA0052 Test Jig

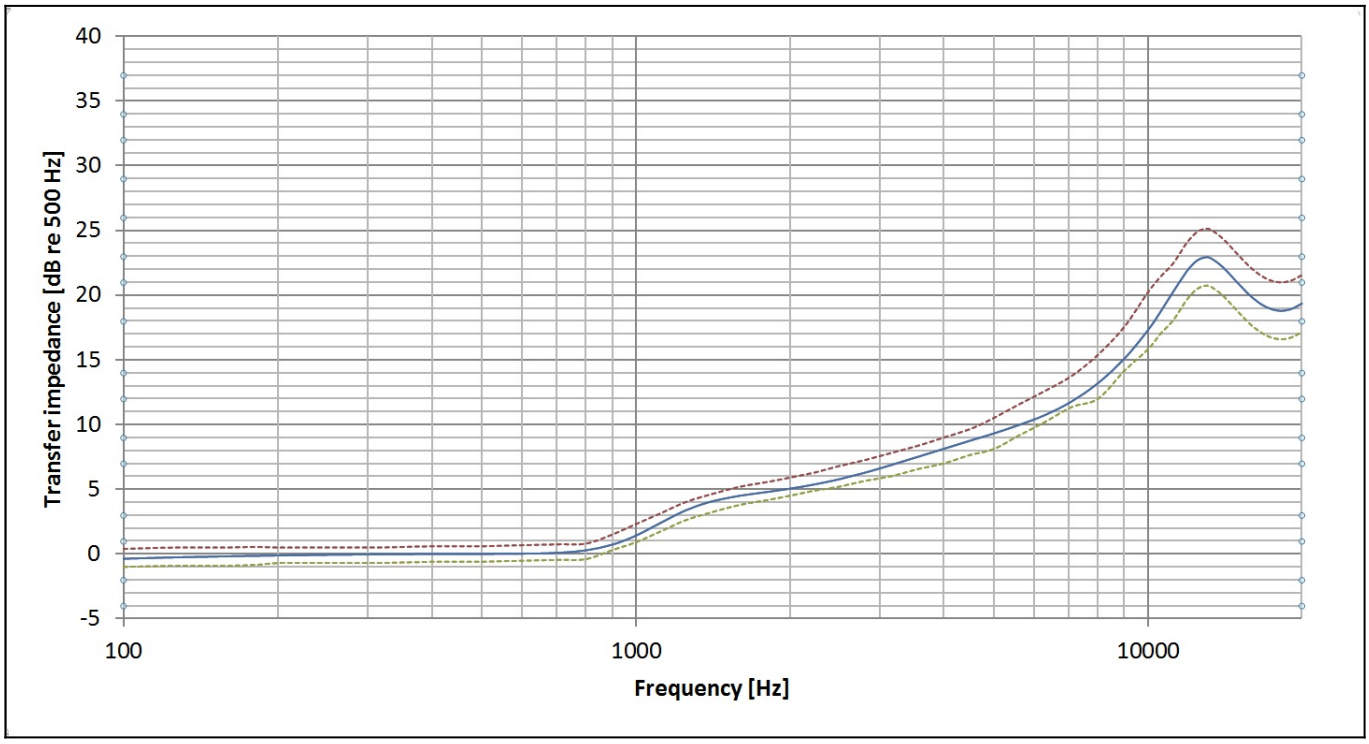
The Test Jig has an adjustable spring-loaded arm to exert a variable force on the test object.

An externally polarized version is available, GRAS 43AC-S4.

TEDS Compatibility

43AC-S5 is IEEE 1451.4 TEDS v. 1.0 compliant. If your measurement platform supports Transducer Electronic Data Sheets (TEDS), you will be able to read and write data like properties and calibration data.

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	153
Set sensitivity @ 250 Hz (±2 dB)	mV/Pa	12
Set sensitivity @ 250 Hz (±2 dB)	dB re 1V/Pa	-38.5
Coupler volume	mm^3	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



Typical frequency response for RA0402

Included

GRAS RA0402	High Resolution Ear Simulator, including 40AO pressure microphone (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.

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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