

GRAS 47AX

1/2" CCP



Freq range: 3.15 Hz to 20 kHz
Dyn range: 22 dB(A) to 150 dB
Sensitivity: 12.5 mV/Pa

GRAS 47AX 1/2" CCP 1/2" CCP

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



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Design

47AX 8
 22 dB 146 dB 3.15 Hz 20 kHz
 (CCP) TEDS 1.5 Microdot
 BNC
 47AX 47AX-S1

[GRAS 67AX](#) 400

47AX IEC 61094

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[gras/calib.](#)

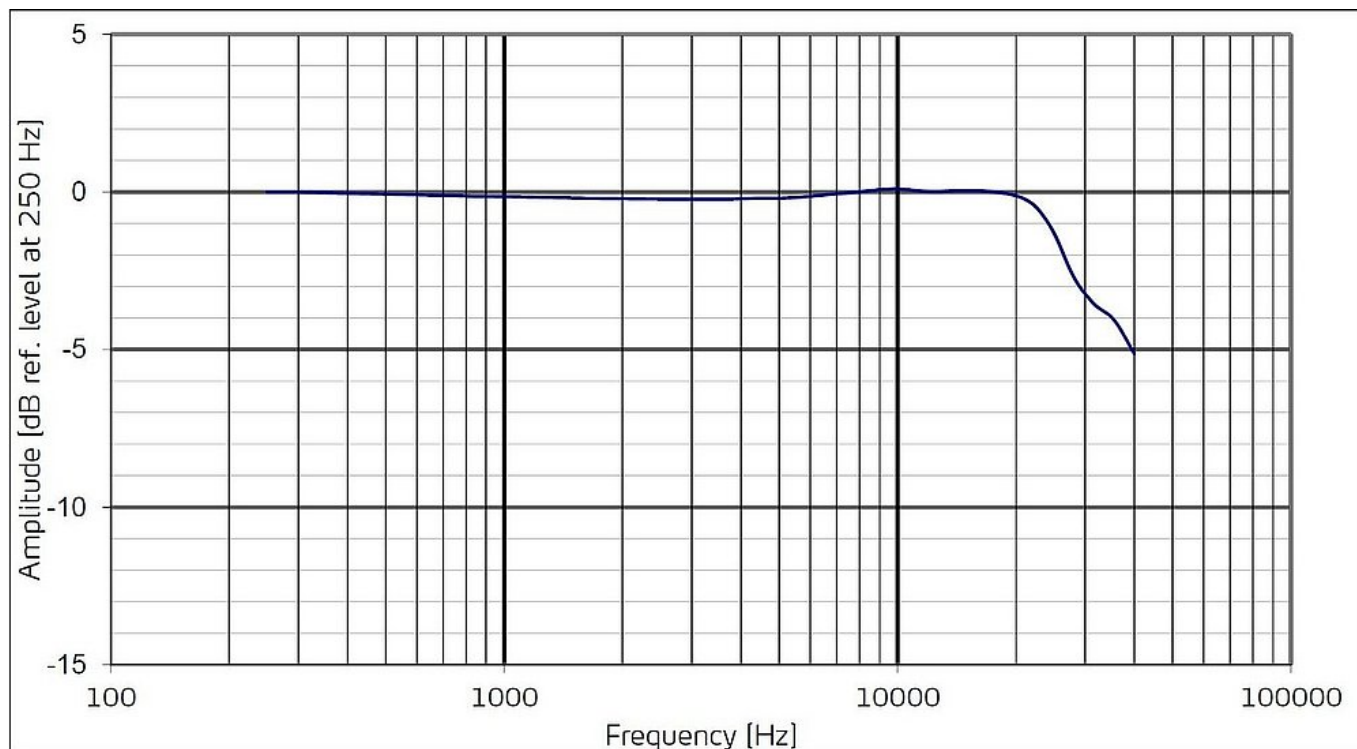
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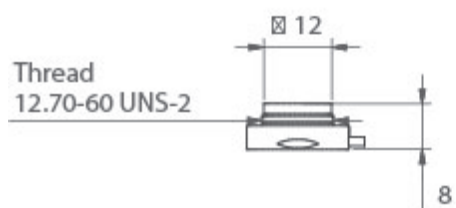
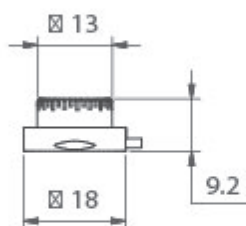


Polarization/Connection		0 V / CCP
Frequency range (± 1 dB)	Hz	5 to 12.5 k
Frequency range (± 2 dB)	Hz	3.15 to 20 k
Dynamic range lower limit with GRAS preamplifier	dB(A)	22
Dynamic range upper limit with GRAS CCP preamplifier	dB	150
Set sensitivity @ 250 Hz (± 2 dB)	mV/Pa	12.5
Power supply (Constant Current Power)	mA	2 to 10
Microphone venting		Front
IEC 61094-4 Compliance		WS3P
Output impedance	Ω	<50
Temperature range, operation	$^{\circ}\text{C}$ / $^{\circ}\text{F}$	-30 to 70 / -22 to 158
Temperature range, storage	$^{\circ}\text{C}$ / $^{\circ}\text{F}$	-40 to 85 / -40 to 185
Temperature coefficient @250 Hz	dB/ $^{\circ}\text{C}$ / dB/ $^{\circ}\text{F}$	-0.01 dB/ $^{\circ}\text{C}$
Static pressure coefficient @250 Hz	dB/kPa	-0.008
Humidity range non condensing	% RH	0 to 90
Humidity coefficient @250 Hz	dB/% RH	<0.001
Influence of axial vibration @1 m/s ²	dB re 20 μPa	66
TEDS (IEEE 1451.4)		27 v. 1.0
Connector type		Microdot 10/32
CE/RoHS compliant/WEEE registered		Yes/Yes/Yes
Weight	g / oz	9 / 0.317



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Dimensions in mm



GS0523
47AD
47AX

All dimensions in mm.



Included items

GRAS AE0046	Microdot - BNC male adapter
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Optional items

GRAS 12AL	1-Channel CCP Power Module with A-weighting filter
GRAS 42AP	Intelligent pistonphone
GRAS RA0221	Pistonphone Calibration Adapter for 1/2" Flush-mount Microphone Sets
GRAS RA0501	Mounting Adapter for 1/2" Flush-mount Microphone Set
GRAS RA0302	Removal Tool for 1/2" & 1/4" Flush-mount Microphones
GRAS AE0074	BNC male to female adapter
GRAS AA0035	3 m BNC - BNC Cable
GRAS AA0037	10 m BNC - BNC Cable
GRAS CA0029	Traceable Calibration of Microphone Set
GRAS CA2301	Accredited Calibration of Microphone Set

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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