

# 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  
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[www.grasacoustics.com](http://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.](#)

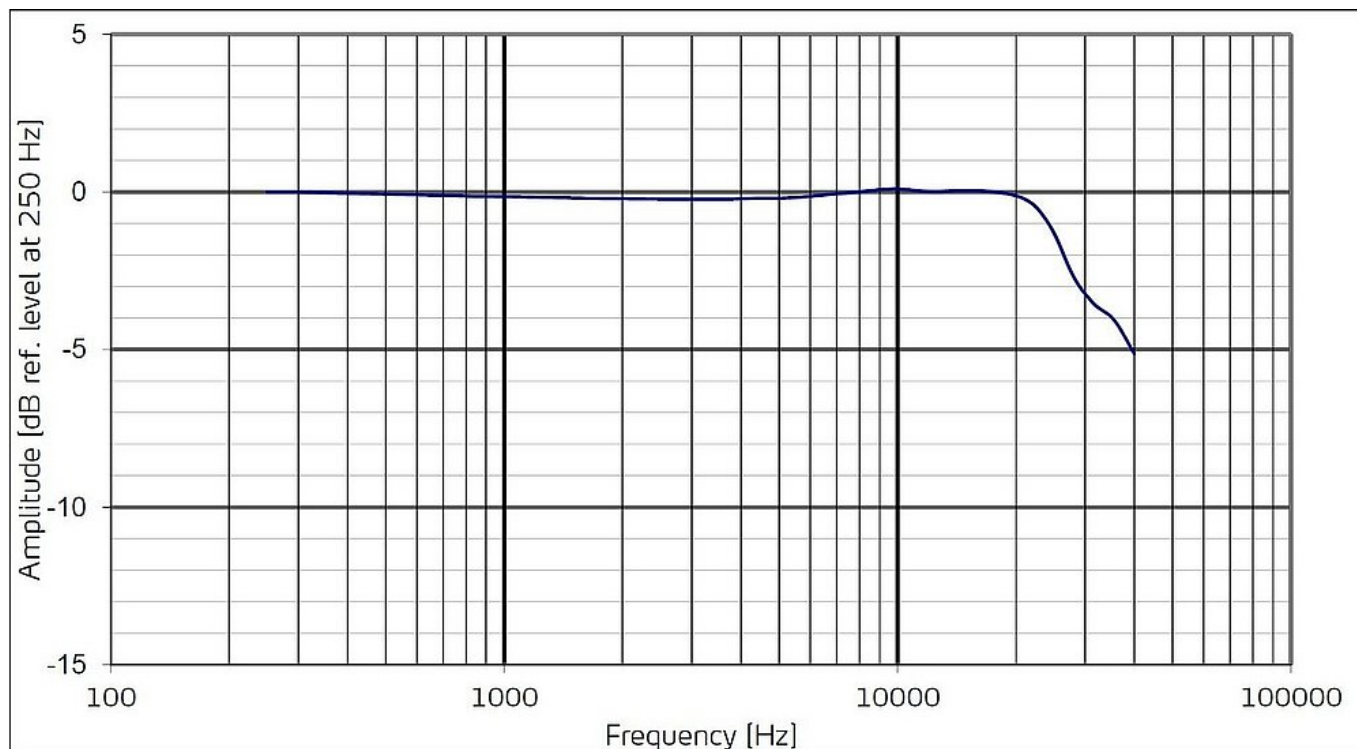
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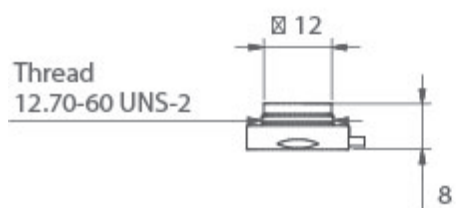
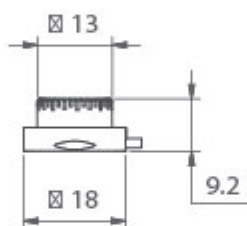


Polarization/Connection		0 V / CCP
Frequency range ( $\pm 1$ dB)	Hz	5 to 12.5 k
Frequency range ( $\pm 2$ dB)	Hz	3.15 to 20 k
Dynamic range lower limit with GRAS preamplifier	dB(A)	22
Dynamic range upper limit with GRAS CCP preamplifier	dB	150
Set sensitivity @ 250 Hz ( $\pm 2$ dB)	mV/Pa	12.5
Power supply (Constant Current Power)	mA	2 to 10
Microphone venting		Front
IEC 61094-4 Compliance		WS3P
Output impedance	$\Omega$	<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 <sup>2</sup>	dB re 20 $\mu\text{Pa}$	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

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

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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](http://www.grasacoustics.com)

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**GRAS**  
An Axiometrix Solutions Brand