

# GRAS 46BG-FV

1/4" CCP



Freq range: 3.15 Hz to 70 kHz  
Dyn range: 60 dB(A) to 184 dB  
Sensitivity: 0.25 mV/Pa

GRAS 46BG-FV 1/4" CCP

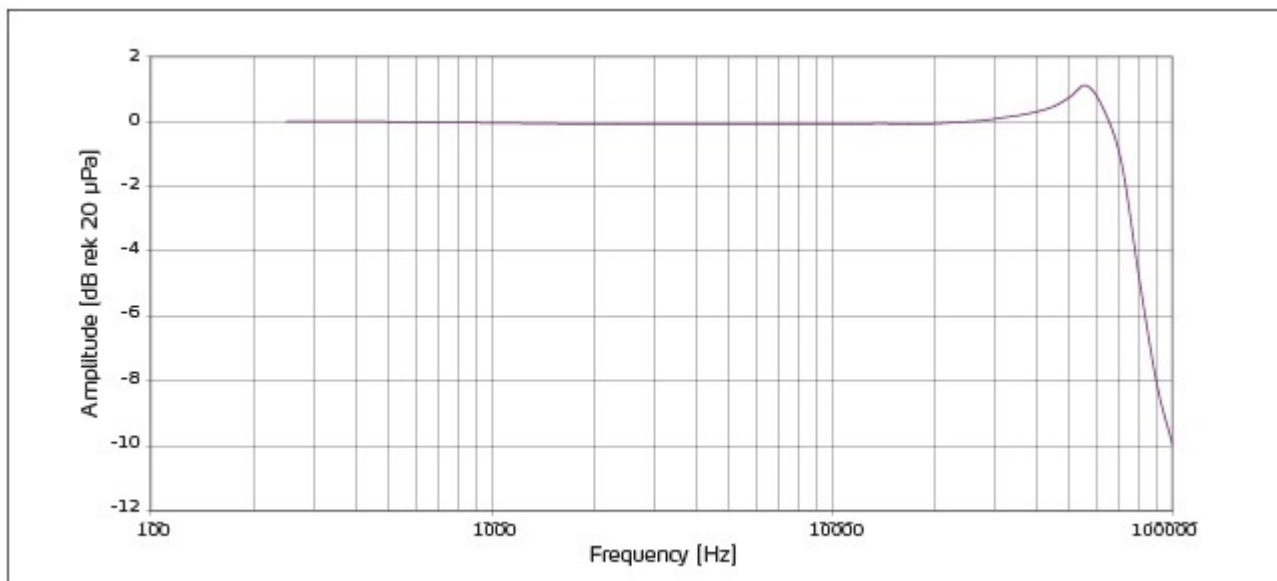
GRAS Sound & Vibration  
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[www.grasacoustics.com](http://www.grasacoustics.com)



## Introduction

46BG-FV is a front-vented version of the GRAS 46BG 1/4" CCP Pressure Standard Microphone Set, High Pressure. Apart from the venting, these microphone sets are identical. Learn more [here](#).

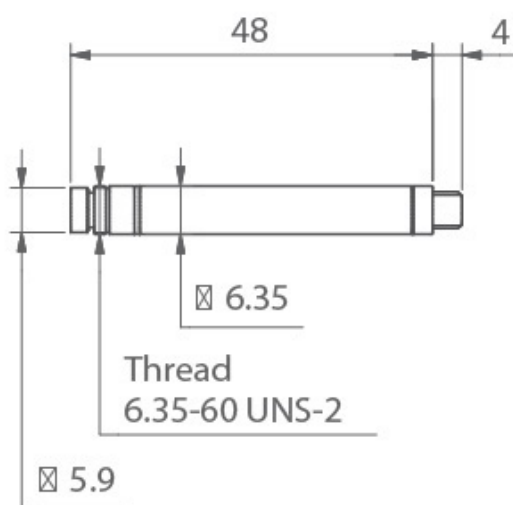
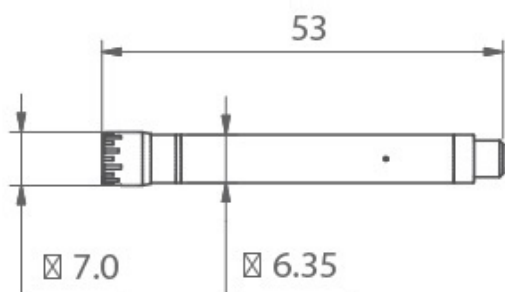
Polarization/Connection		0 V / CCP
Frequency range ( $\pm 2$ dB)	Hz	3.15 to 70 k
Dynamic range lower limit with GRAS preamplifier	dB(A)	60
Dynamic range upper limit with GRAS CCP preamplifier	dB	184
Set sensitivity @ 250 Hz ( $\pm 2$ dB)	mV/Pa	0.25
Set sensitivity @ 250 Hz ( $\pm 2$ dB)	dB re 1V/Pa	- 72
Output impedance	$\Omega$	<50
Output Voltage Swing, min. @ 24-28 V CCP voltage supply	Vp	8
Power supply min. to max.	mA	2 to 20
Power supply min. to max. (single/balanced)	V	N/A
DC bias voltage, typ.	V	12
Microphone venting		Front
IEC 61094-4 Designation		WS3P
Temperature range, operation	$^{\circ}\text{C}$ / $^{\circ}\text{F}$	-30 to 85 / -22 to 185
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 / -0.006
Static pressure coefficient @250 Hz	dB/kPa	-0.01
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 $\mu\text{Pa}$	63
TEDS (IEEE 1451.4)		27 v. 1.0
Connector type		Microdot 10/32
CE/RoHS compliant/WEEE registered		Yes/Yes/Yes
Weight	g / oz	8 / 0.282



*Typical pressure frequency response of the 46BG*

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Dimensions in mm



## Optional items

<a href="#">GRAS AA0070</a>	3 m Microdot - BNC Cable
<a href="#">GRAS AL0029</a>	1/4" Microphone Holder, POM
<a href="#">GRAS AL0013</a>	1/4" Microphone Holder, Stainless Steel
<a href="#">GRAS AL0005</a>	Swivel head
<a href="#">GRAS AL0006</a>	Tripod
<a href="#">GRAS RA0022</a>	1/4" Nosecone
<a href="#">GRAS AM0071</a>	Windscreen for 1/4" Microphones
<a href="#">GRAS RA0127</a>	Rain-protection cap for 1/4" microphones
<a href="#">GRAS 12AL</a>	1-Channel CCP Power Module with A-weighting filter
<a href="#">GRAS 12AQ</a>	2-Channel Universal Power Module with signal conditioning and PC interface
<a href="#">GRAS 42AG</a>	Multifunction Sound Calibrator, Class 1
<a href="#">GRAS 42AP</a>	Intelligent Pistonphone, Class 0

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# 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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