

GRAS 46BG-FV

1/4" CCP Pressure Front Vented Microphone Set, High Pressure



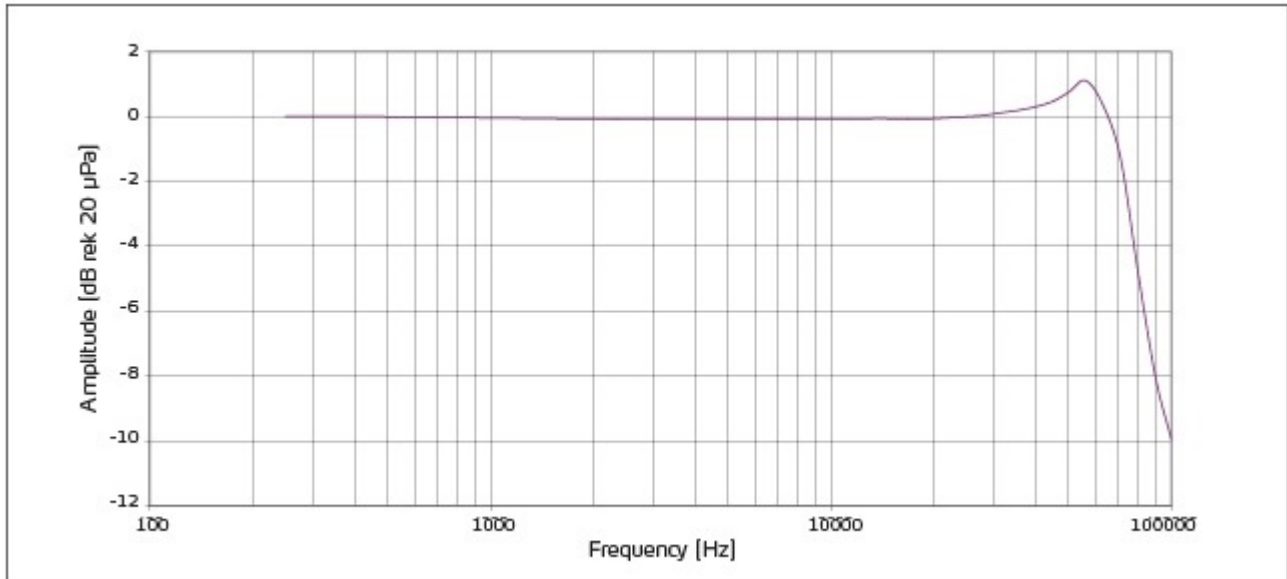
Freq range: 3.15 Hz to 70 kHz
Dyn range: 60 dB(A) to 184 dB
Sensitivity: 0.25 mV/Pa

The GRAS 46BG-FV is a front-vented 1/4" CCP pressure microphone set for measuring very high sound pressure levels.

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](#).

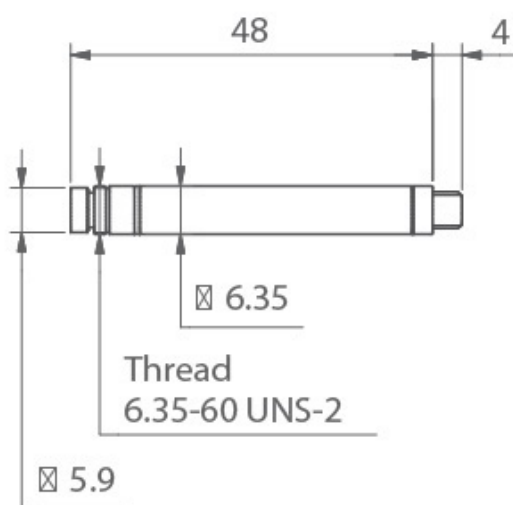
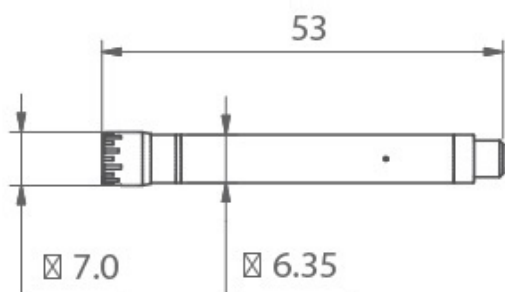
Polarization/Connection		0 V / CCP
Frequency range (± 2 dB)	Hz	3.15 to 70 k
Dynamic range lower limit with GRAS preamplifier	dB(A)	60
Dynamic range upper limit with GRAS CCP preamplifier	dB	184
Set sensitivity @ 250 Hz (± 2 dB)	mV/Pa	0.25
Set sensitivity @ 250 Hz (± 2 dB)	dB re 1V/Pa	- 72
Output impedance	Ω	<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 ²	dB re 20 μPa	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

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

Dimensions in mm



Optional items

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

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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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