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

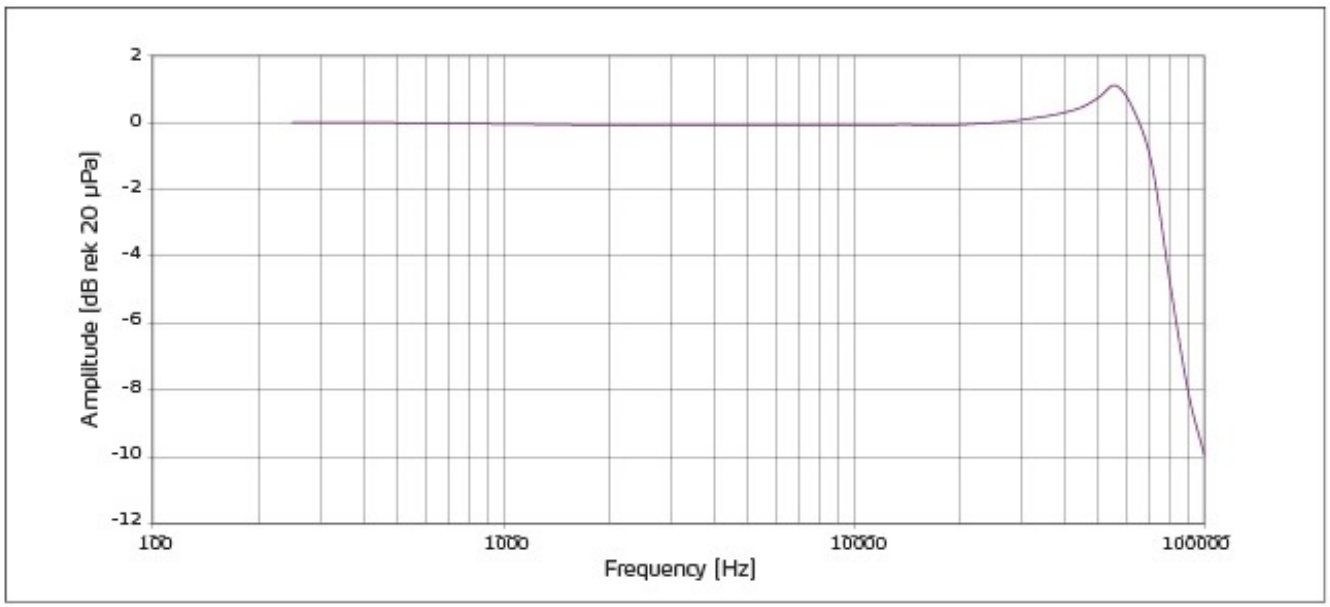
The GRAS 46BG-FV is a front-vented 1/4" CCP pressure microphone set for measuring very high sound pressure levels.

GRAS Sound & Vibration
Skovlytoften 33, 2840 Holte, Denmark
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 (±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	°C / °F	-30 to 85 / -22 to 185
Temperature range, storage	°C / °F	-40 to 85 / -40 to 185
Temperature coefficient @250 Hz	dB/°C / dB/°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/s²	dB re 20 µPa	63
TEDS UTID (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

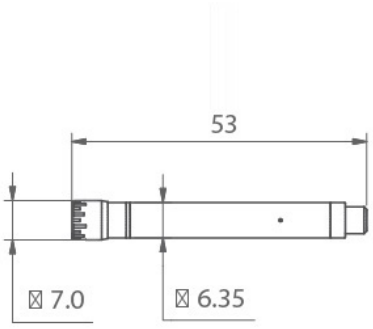


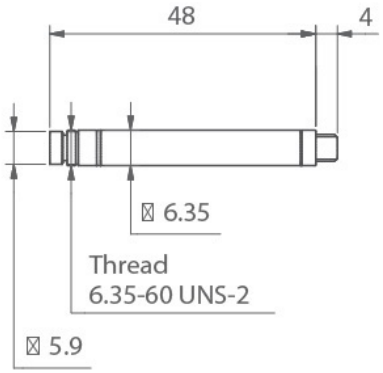
Typical pressure frequency response of the 46BG

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

Dimensions

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

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

grasacoustics.com

GRAS
An Axiometrix Solutions Brand