

# GRAS 67SB

ANSI S12.42



Freq range: 10 Hz to 20 kHz  
Dyn range: 52 dB(A) to 174 dB

GRAS 67SB

ANSI/ASA S12.42

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



The 67SB Blast Probe is designed as a reference microphone for impulse measurements according to the ANSI S12.42 standard. The 67SB can measure impulse signals with an A-duration of  $0.5 \text{ ms} \leq \text{impulse} \leq 2.0 \text{ ms}$ , and it has a working range of 10 Hz – 20 kHz. The 1/8" reference microphone inside the 67SB is ideally suited for capturing impulsive signals with a very fine time resolution. This microphone has an upper limit of 174 dB in the dynamic range.

The 67SB is equipped with a 1/8" reference microphone which is designed to capture impulsive noise with a very short duration. The 67SB is provided with a 1/4" threaded hole for mounting the 67SB directly on a tripod e.g. AL0006.

The design and concept of the 67SB, and the microphone and preamplifier, comply with the following standards:

- ANSI S12.42 – "Methods for the Measurement of Insertion Loss of Hearing Protection Devices in Continuous or Impulsive Noise Using Microphone-in-Real Ear or Acoustic Test Fixture Procedures"
- IEC Standard 61094-1 – "Specifications for Laboratory Standard Microphones"

The 67SB has a length of 410 mm.



Polarization/Connection		200 V / Traditional
Frequency range ( $\pm 2$ dB)	Hz	10 to 20 k
Dynamic range lower limit with GRAS preamplifier	dB(A)	52
Dynamic range upper limit	dB	174
Microphone venting		Rear
Output impedance	$\Omega$	75
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
Static pressure coefficient @250 Hz	dB/kPa	-0.01 at 25 $^{\circ}\text{C}$
Humidity range non condensing	% RH	0 to 95
Humidity coefficient @250 Hz	dB/% RH	<0.1/0-100
Influence of axial vibration @1 m/s <sup>2</sup>	dB re 20 $\mu\text{Pa}$	59
Connector type		7-pin LEMO (FGG.1B.307)
CE/RoHS compliant/WEEE registered		Yes/Yes/Yes
Weight	g / oz	650 / 22.9

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

## Included

GRAS RA0246	Calibration clip for use with Pistonphone
GRAS GR1243	Pistonphone adapter
GRAS YY0012	1.5 mm Hex key
GRAS LI0056	Manual

## Optional

<a href="#">GRAS 12AK</a>	1-ch LEMO Power Module with gain, filters and SysCheck generator
<a href="#">GRAS AA0008</a>	3 m LEMO extension cable
<a href="#">GRAS AA0009</a>	10 m LEMO extension cable
<a href="#">GRAS 42AP</a>	Intelligent Pistonphone
<a href="#">GRAS AL0006</a>	Tripod

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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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