

GRAS 67SB

Blast Probe Microphone according to
ANSI S12.42



Freq range: 10 Hz to 20 kHz
Dyn range: 44 dB(A) to 174 dB

The GRAS 67SB Blast Probe is designed as a reference microphone for impulse measurements according to the ANSI/ASA S12.42 standard.

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.



Frequency range (± 2 dB)	Hz	10 to 20 k
Dynamic range lower limit (microphone thermal noise)	dB(A)	44
Dynamic range upper limit	dB	174
Microphone venting		Rear
Output impedance		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 ²	dB re 20 μPa	59
Connector type		3 m 7-pin LEMO
CE/RoHS compliant/WEEE registered		Yes/Yes/Yes
Weight	g / oz	650 / 22.9
Specification Conditions		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

GRAS 12AK	1-ch LEMO Power Module with gain, filters and SysCheck generator
GRAS AA0008	3 m LEMO extension cable
GRAS AA0009	10 m LEMO extension cable
GRAS 42AP	Intelligent Pistonphone
GRAS AL0006	Tripod

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| We Make Microphones

Tradition

Since the establishment in 1994, GRAS has been 100% dedicated to developing and manufacturing high-quality measurement microphones and related acoustic equipment.

Innovation

We work with everybody with an interest in sound or noise within the fields of aerospace, automotive, audiology, consumer electronics, noise monitoring, building acoustics and telecommunications.

Quality

At GRAS we know that in order for you to trust your measurement results; signal quality, stability and robustness are essentials. We design and build them to perform under real life conditions – and beyond.

