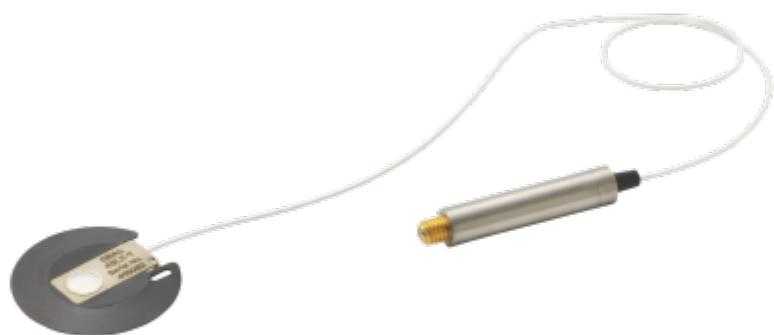


GRAS 48LX-1

UTP



Freq range: 20 Hz to 31.5 kHz (± 1 dB)
10 Hz to 50 kHz (± 3 dB)

Dyn range: 54 dB(A) to 170 dB

Sensitivity: 0.6 mV/Pa (± 3 dB)

Use: For aeroacoustic measurements

48LX-1

UTP

1/4"CCP

1

...



48LX-1 (UTP)
¼ CCP 1
TEDS
Microdot 3

GRAS Sound & Vibration



48LX-1

- 48LX-1
- 48LA
- 48LX



48LX-1 RA4810 48LA/48LX-1
7.5°



RA4800 /
RA4800 _____.



RA4801 48LA/48LX-1 ½
48LA/48LX RA4802 RA4801 RA4802
RA4805
48LX-1

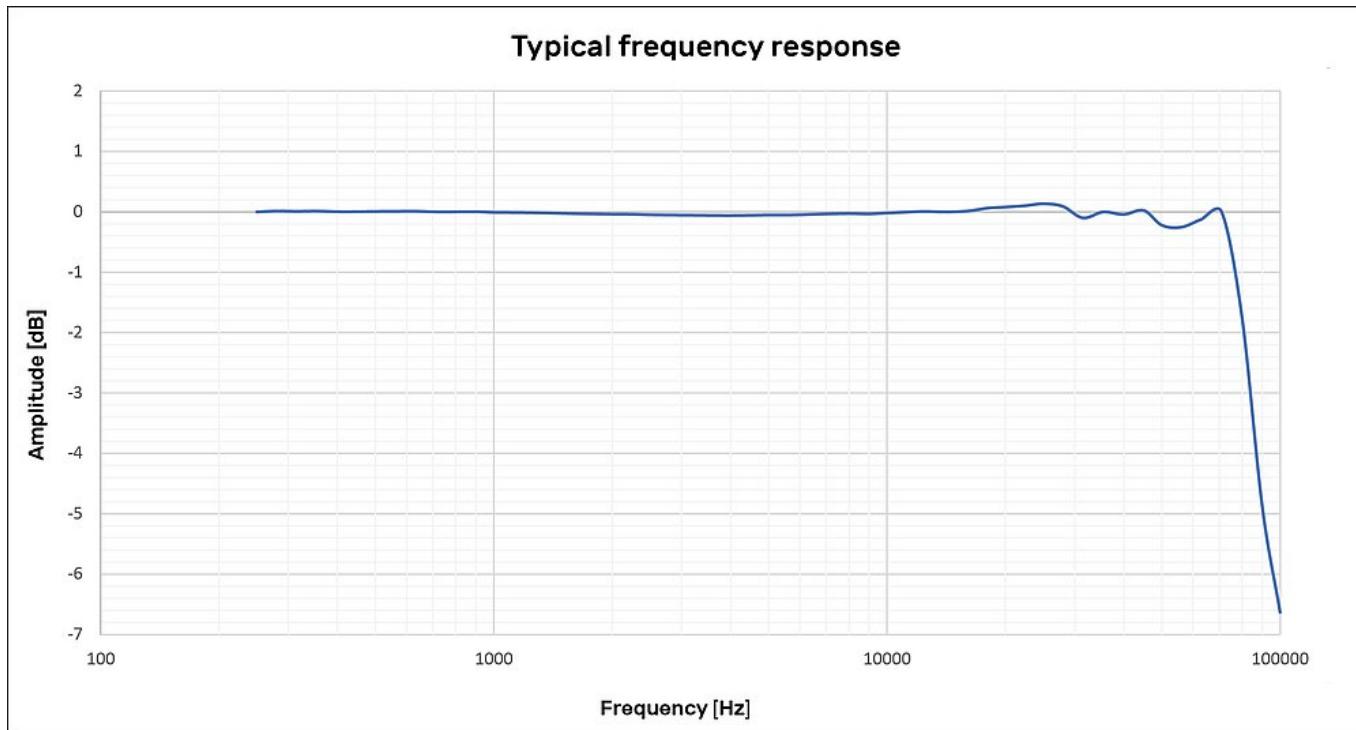


GRAS

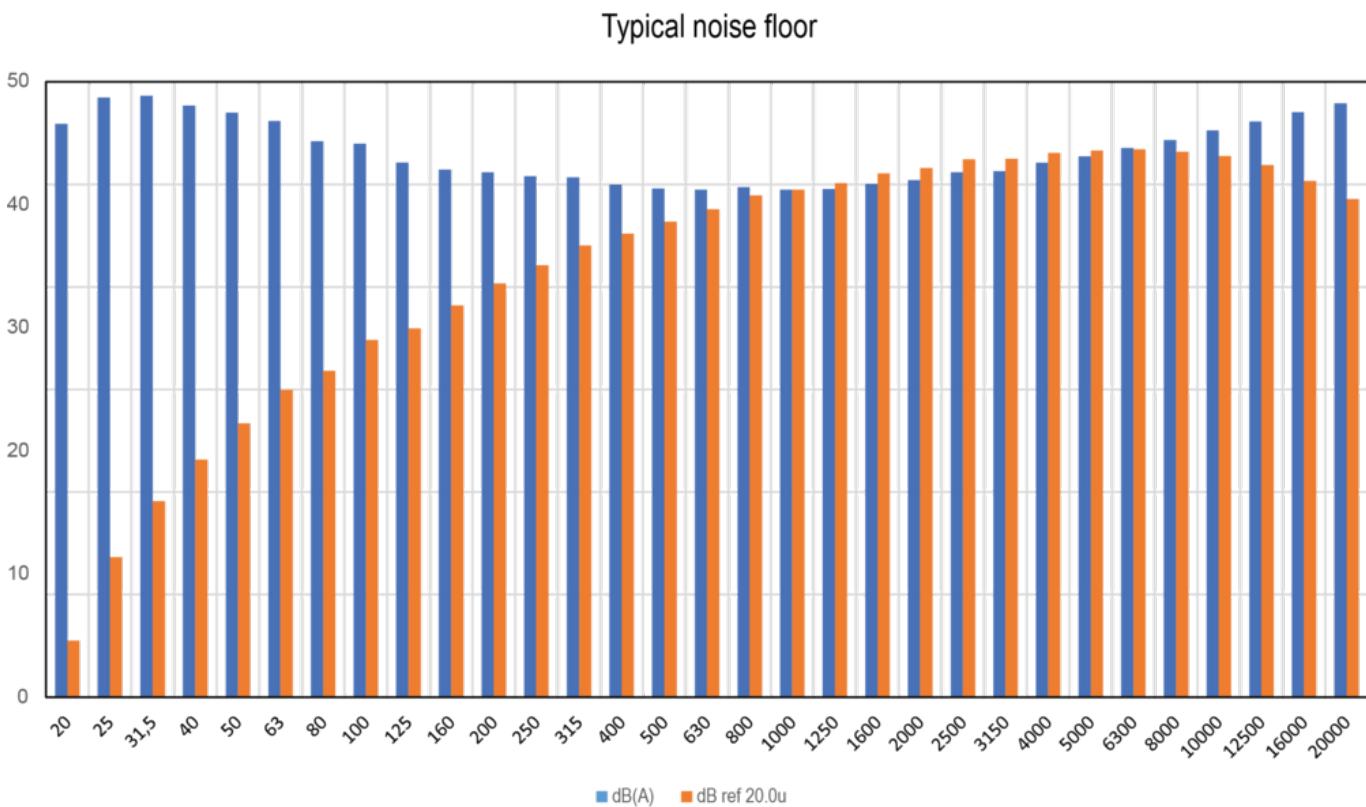
48LX-1

Specifications

| | | |
|--|---|--|
| Frequency range (± 1 dB) | Hz | 20-31.5 k |
| Frequency range (± 3 dB) | Hz | 10-50 k |
| Dynamic range lower limit (microphone thermal noise) | dB(A) | 54 |
| Dynamic range upper limit | dB | 170 |
| Sensitivity @ 250 Hz (± 3 dB) | dB re 1V/Pa | -64.4 |
| Sensitivity @ 250 Hz (± 3 dB) | mV/Pa | 0.6 |
| Output impedance | Ω | <50 |
| Power supply min. to max. | mA | 2 - 10 |
| Microphone venting | | Front |
| Temperature range, operation | $^{\circ}\text{C} / ^{\circ}\text{F}$ | -20 to 85 / -4 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/ $^{\circ}\text{F}$ | -0.03, Typical |
| Static pressure coefficient @250 Hz | dB/kPa | -0.0003 |
| Humidity range non condensing | % RH | 0 to 80 |
| Humidity coefficient @250 Hz | dB/% RH | -0.01 |
| Influence of axial vibration @1 m/s ² | dB re 20 μPa | 73 |
| TEDS UDID (IEEE 1451.4) | | I27-0-0-0U |
| Weight | g / oz | 1 / 0.035 (excl. cable); 18 / 0.63 (incl. cable) |

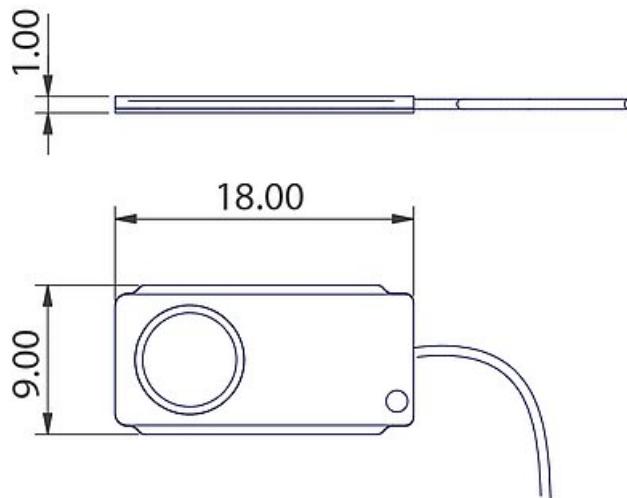


The frequency response is within ± 3 dB up to 70 kHz

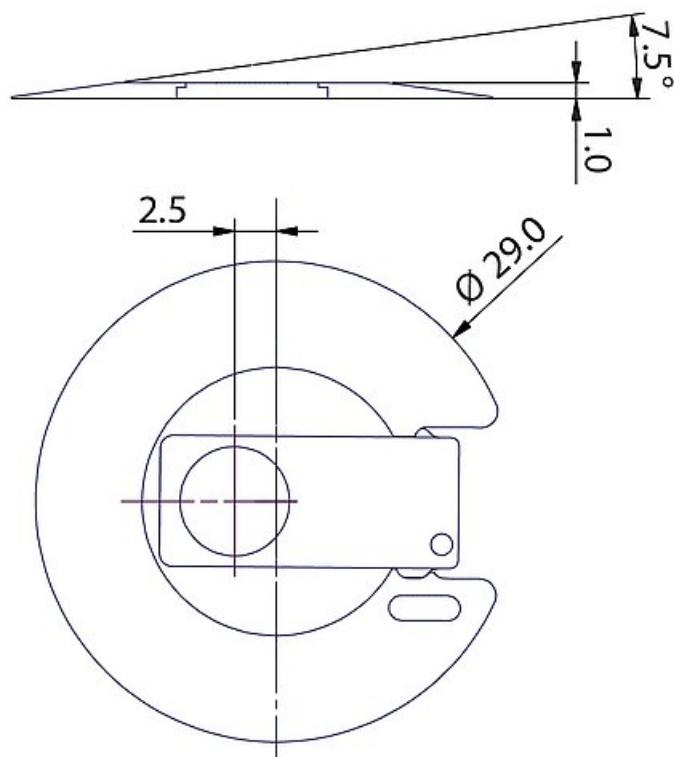


All dimensions in mm

48LA/LX-1



Fairing



Included items

| | |
|-------------|--|
| GRAS 48LX-1 | UTP Microphone, Medium Pressure, with 3 m cable and booster |
| GRAS RA4810 | Hard Fairing for 48LA/48LX-1, with click mount, double-sided self-adhesive mounting pad included x1 |

Optional items

| | |
|----------------|--|
| GRAS RA4800 | Adapter for Sensitivity Verification of Flush/Surface Microphones |
| GRAS RA4801 | Adapter for Sensitivity Calibration of 48LA/48LX-1 |
| GRAS RA4802 | Actuator for Frequency Calibration of 48LA/48LX-1 |
| GRAS RA4805 | Actuator and Pistonphone Adapter Kit for 48LA/48LX-1. This kit includes RA4801 and RA4802. |
| GRAS RA4810-2 | Hard Fairing for 48LA/48LX-1, with click mount, 10-pack, mounting pads are included |
| GRAS RA4810-10 | Hard Fairing for 48LA/48LX-1, with click mount, 50-pack, mounting pads are included |
| GRAS RA4811 | Soft Fairing Mounting Kit for UTP Microphone Sets |
| GRAS RA4811-2 | Soft Fairing Mounting Kit for UTP Microphone Sets, 10 pcs |
| GRAS RA4812 | DB0521 Mounting overlay tape for UTP fairings (1 pc.) |
| GRAS RA4812-2 | DB0521 Mounting overlay tape for UTP fairings (10 pcs.) |
| GRAS AE0101 | Microdot Male - BNC Male Adapter |
| GRAS AA0070 | Microdot - BNC Cable, 3 m |
| GRAS AA0071 | Microdot - BNC Cable, 5 m |
| GRAS AA0072 | Microdot - BNC Cable, 10 m |

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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

grasacoustics.com

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