GRAS 67AX

ø400 mm CCP Ground Array Microphone Kit





Freq range: 3.15 Hz to 20 kHz Dyn range: 22 dB(A) to 150 dB Sensitivity: 12.5 mV/Pa The GRAS 67AX ½" CCP Ground Array Microphone Set consists of a ½" precision pressure microphone with built-in CCP preamplifier, a ø400 mm mounting plate, and an adapter for a BNC cable.



Technology

Typical applications and use

- Ground array measurements
- · General noise measurements
- Ideal for the aerospace industry

Design

The 67AX is a ground array microphone kit designed for the aerospace industry, i.e. for measurement of noise from overhead aircraft.

The microphone set is designed to sit asymmetrically in the mounting to attain a more uniform frequency response for measurements.

The GRAS 47AX microphone is a IEC 61094 1/2" CCP Flush-mount Microphone Set with a dynamic range from 22 dB to 150 dB and a frequency range from 3.15 Hz to 20 kHz. Its height of only 8 mm (to the diaphragm) is the ideal match for the design of the 67AX. The built-in preamplifier is a low noise constant current power (CCP) type, with a built-in TEDS circuit for automatic transducer identification.

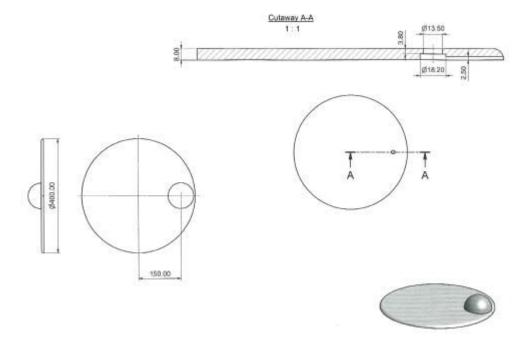


Specifications

| Polarization/Connection | | 0 V / CCP |
|--|--------------|------------------------|
| Frequency range (±1 dB) | Hz | 5 to 12.5 k |
| Frequency range (±2 dB) | Hz | 3.15 to 20 k |
| Dynamic range lower limit (microphone thermal noise) | dB(A) | 22 |
| Dynamic range upper limit | dB | 150 |
| Dynamic range upper limit with GRAS CCP preamplifier | dB | 149 |
| Set sensitivity @ 250 Hz (±2 dB) | mV/Pa | 12.5 |
| Microphone venting | | Rear |
| IEC 61094-4 Compliance | | WS3P |
| Output impedance | Ω | <50 |
| Temperature range, operation | °C / °F | -30 to 70 / -22 to 158 |
| Temperature range, storage | °C / °F | -40 to 85 / -40 to 185 |
| Static pressure coefficient @250 Hz | dB/kPa | -0.008 |
| Humidity range non condensing | % RH | 1 to 100 |
| Humidity coefficient @250 Hz | dB/% RH | < 0.1 |
| Influence of axial vibration @1 m/s² | dB re 20 μPa | 66 |
| TEDS (IEEE 1451.4) | | 27 v. 1.0 |
| Connector type | | BNC |
| CE/RoHS compliant/WEEE registered | | Yes/Yes/Yes |
| Weight | g / oz | 15 / 0.529 |



Specifications



Placement of the microphone in the plate with the windscreen on top. The cutaway of section A to A shows how the microphone fits into the plate.

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



Included items

| <u>GRAS 47AX-S1</u> | 1/2" CCP Flush-mounted Microphone Set |
|---------------------|---------------------------------------|
| GRAS GR1425 | Ground plate 0400 mm |
| GRAS AM0375 | Windscreen for 67AX |
| GRAS AA0097 | 3 m Microdot Angled - BNC cable |

Optional accessories

| GRAS 42AP | Intelligent Pistonphone, Class 0 |
|-------------|--|
| GRAS RA0216 | Pistonphone field-verification adapter |
| GRAS RA0221 | Pistonphone calibration adapter |

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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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