GRAS 67AX

⌀400 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 ⌀400 mm mounting plate, and an adapter for a BNC cable.

GRAS Sound & Vibration
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Typical applications and use

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

Design

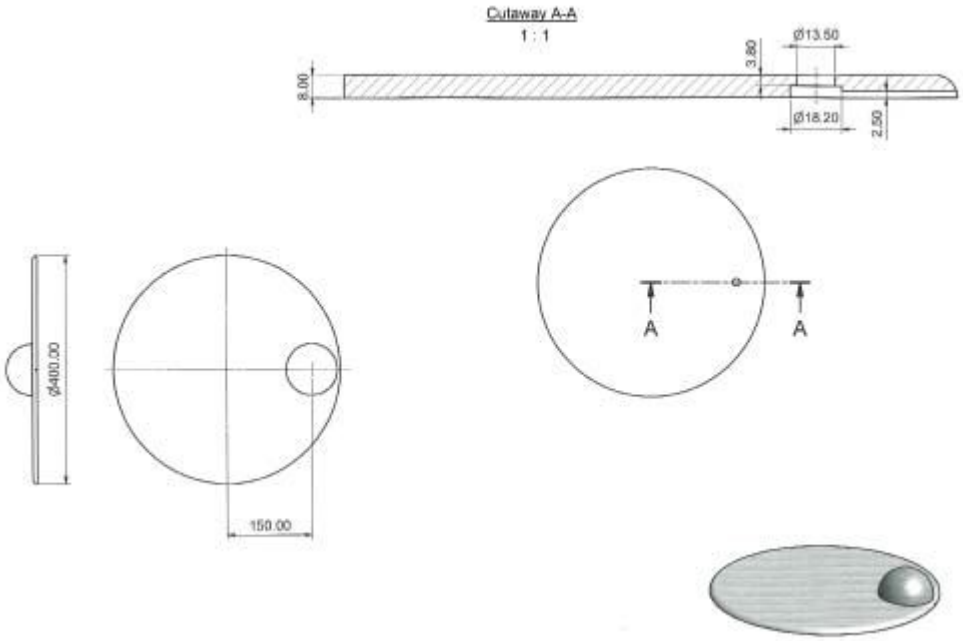
The 67AX is a ground array microphone kit designed for the aerospace industry, i.e. for measurement of noise from overhead aircraft.

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 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



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.

Ordering info

Included items

GRAS 47AX-S1	1/2" CCP Flush-mounted Microphone Set
GRAS GR1425	Ground plate Ø400 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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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 to industries where acoustic measuring accuracy and repeatability is of utmost importance in R&D, QA and production. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, and consumer electronics. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect and trust.

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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