

GRAS RA0357

Random Incidence Corrector
for 146AE



GRAS RA0357 is a random incidence corrector for 146AE. With RA0357 mounted, 146AE can be used as a random incidence microphone up to 10 kHz.

Introduction

RA0357 is a random-incidence corrector for use with GRAS 146AE with the blue protection grid mounted. When it is mounted on the grid of the 146AE free-field microphone, the combination complies with ANSI Standard S1.4 Type 1 for diffuse field measurements in the audio-frequency range.

Design

The combination is designed to measure the sound pressure as it existed before the microphone and corrector were introduced into a diffuse sound field. At higher frequencies, the presence of the microphone/corrector combination in the sound field will change the sound pressure. In general, this sound pressure will increase due to reflections and diffraction, but will vary with incidence angle. The RA0357 random-incidence corrector is designed so that its combination with a GRAS 146AE free-field microphone results in a diffraction response that compensates for the mechanical response of the free-field microphone, assuming that the sound waves arrive at random from all directions.

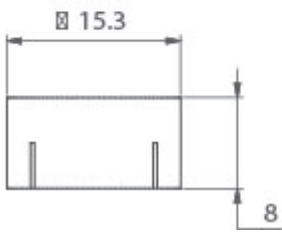
The RA0357 provides diffuse field correction up to 10 kHz.

Typical Applications

The RA0357 adds flexibility to the already versatile 146AE which now can also be used in sound fields where the sound comes from all directions, that is in diffuse sound fields. This makes it ideal for measurements in car cabin, engine compartments and similar closed cavities.

Material		POM
Standard		IEC 60651, Appendix B

Dimensions in mm



GRAS Worldwide

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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.

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