

AWA14522 Measuring Microphone

I.Introduction

The AWA14522 is a sound-pressure-field measurement microphone specifically designed for outdoor use. To meet the requirements for remote outdoor calibration, it is equipped with a dedicated electrostatic calibration protective cap, enabling remote calibration of the microphone's sensitivity. The diaphragm is manufactured using laser welding, ensuring excellent stability and environmental adaptability; its performance meets the requirements for Class 1 engineering measurement microphones as specified in SJ/T 10724. The AWA14XXX series microphones are assembled and tested in cleanroom environments, offering features such as low background noise, high stability, and a wide frequency response range. They can be used in conjunction with instruments such as multi-channel analyzers, noise analyzers, and electro-acoustic testers for noise measurement and analysis, and serve as a direct replacement for measurement microphones from other domestic and international brands.

II.Use cases

Outdoor environmental noise measurements requiring remote calibration

High-end sound level meters and multi-channel analyzers

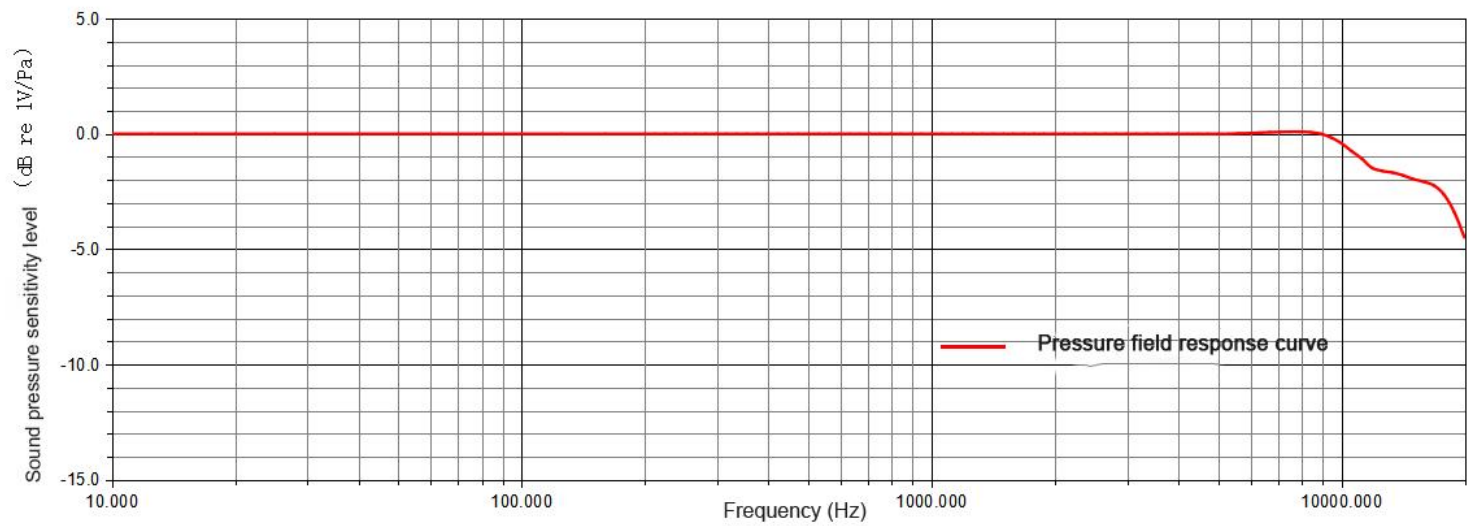
Equipment compliant with IEC 61672 Class 1 standards

III. Technical Specifications

AWA14522 Measuring Microphone	
Sound field type	Pressure Field
Diameter	1/2 inches
Dimensions compliant with standard (IEC 61094)	WS2P
Polarization voltage (V)	0
Sensitivity (mV/Pa) (@250 Hz ± 1.5 dB)	47.3
Frequency range (Hz)	3.15~16k
Typical capacitance (pF) (@250 Hz)	10
Dynamic range (dB)	18~145
Noise floor (dB(A))	≤ 18
Pressure equalization method	Side Pressure Equalization
Operating temperature (°C)	-30~+80
Temperature coefficient (dB/°C) (@250 Hz)	-0.01 (-10 °C~50 °C)
Static pressure coefficient (dB/kPa)	-0.01
Operating humidity range (% RH)	0~100

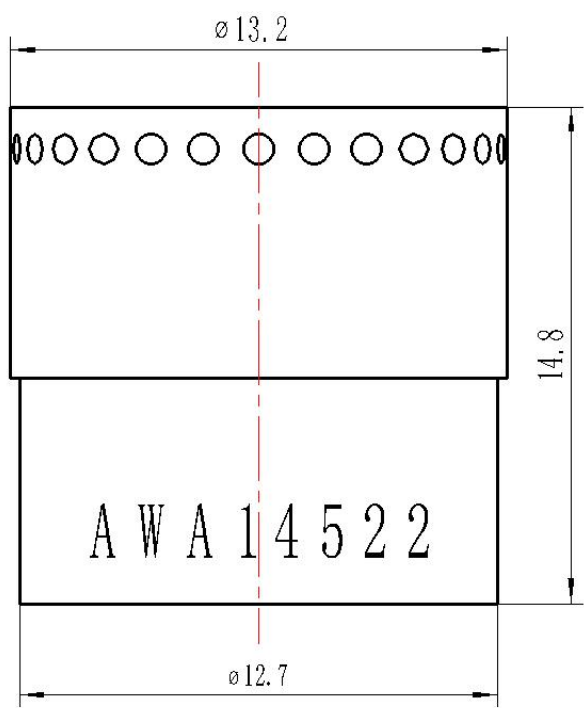
Height (including protective cap) (mm)	14.8
Diameter (including protective cap) (mm)	13.2
Height (excluding protective cap) (mm)	13.3
Diameter (excluding protective cap) (mm)	12.7
Preamplifier mounting thread	11.7 mm-60 UNS

IV. Typical Frequency Response Curve of the AWA14522 Measurement Microphone



Test conditions: Temperature 23°C, relative humidity 50%RH

V. Specifications and Dimensions



VI. Contact Information

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