

AWA14521 Measuring Microphone



I. Introduction

The AWA14521 measuring microphone is a 1/2-inch high SPL wideband free-field measuring microphone that meets the needs of conventional sound signal measurement. The AWA14521 diaphragm is laser-welded, exhibiting good stability and environmental adaptability. Its performance meets the Class 1 engineering measuring microphone requirements of SJ/T 10724 and can be used with IEPE or conventional preamplifiers. The assembly and debugging of the AWA144XX series measuring microphones are performed in a cleanroom, featuring low background noise, high stability, and a wide frequency response range. It can be used with multi-channel analyzers, noise analyzers, electroacoustic testers, and other instruments for noise measurement and analysis, and can also replace measuring microphones from other domestic and international brands.

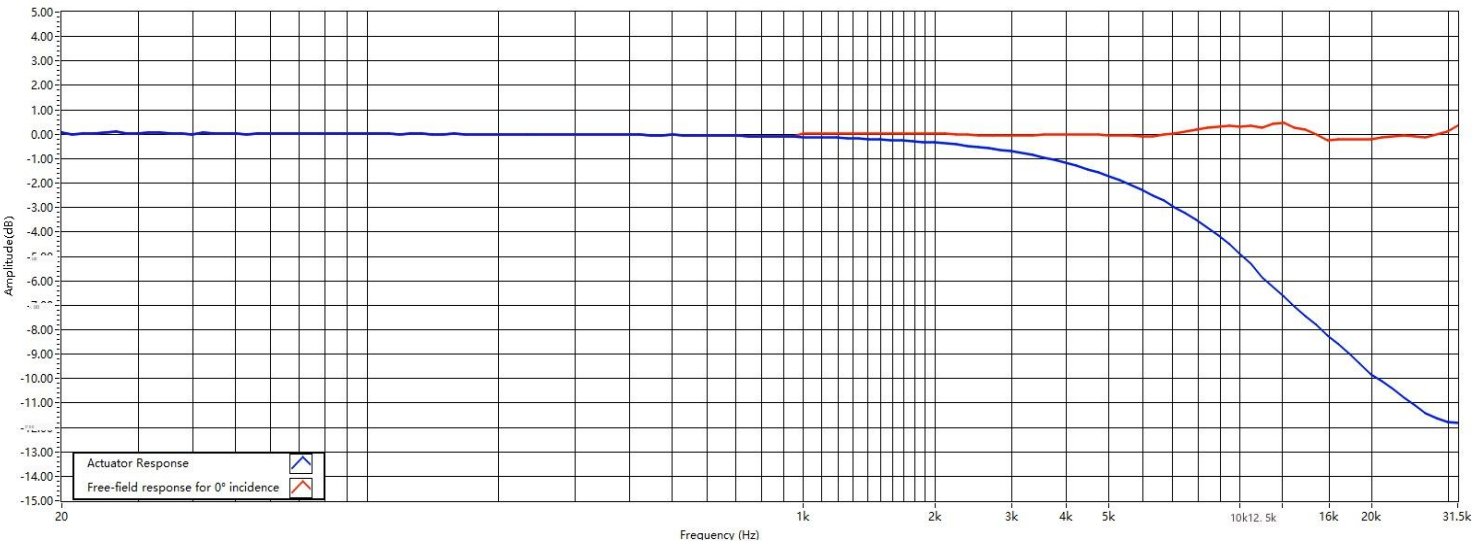
II. Technical Specifications

AWA14521 Measuring Microphone	
Sound Field Type	Free Field
Diameter	1.2 inches
Dimensions conform to standard (IEC 61094)	WS2F
Polarization Voltage (V)	0
Sensitivity (mV/Pa) (@250 Hz±2.5 dB)	4.2
Frequency Range (Hz)	3.15~31.5k
Typical Capacitance (pF) (@250Hz)	12
Dynamic range (dB)	34~160
Noise floor (dBA)	≤34
Voltage Equalization Method	Side Voltage Equalization
Operating Temperature (°C)	-30~+80
Temperature Coefficient (dB/°C) (@250Hz)	-0.01 (-10 °C~50 °C)
Static pressure coefficient (dB/kPa)	-0.01
Operating humidity range (%RH)	0~100
Height (including protective cover) (mm)	13.3

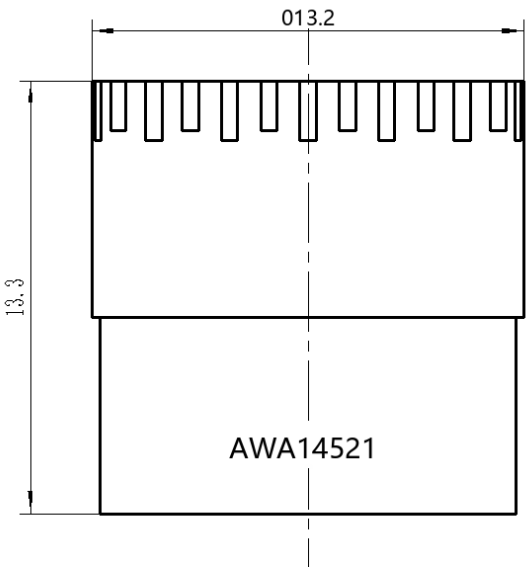
Diameter (including protective cover) (mm)	13.2
Height (excluding protective cover) (mm)	12.6
Diameter (excluding protective cover) (mm)	12.7
Preamplifier Fitting Thread	11.7 mm-60 UNS

III. Typical frequency response curve of AWA14521 measuring microphone

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



IV. Specifications and Dimensions



V. Contact Information

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