

AWA14434 Measuring Microphone



1、 Introduction

The AWA14434 measuring microphone is specifically designed for high sound pressure level (SPL) measurements, with a measurement limit exceeding 175 dB. It features excellent stability and environmental adaptability, meeting the Class 1 engineering measuring microphone requirements of SJ/T 10724. It can be used with the AWA8750 adapter and a 1/2-inch preamplifier, or directly with the AWA14614E 1/4-inch preamplifier. 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.

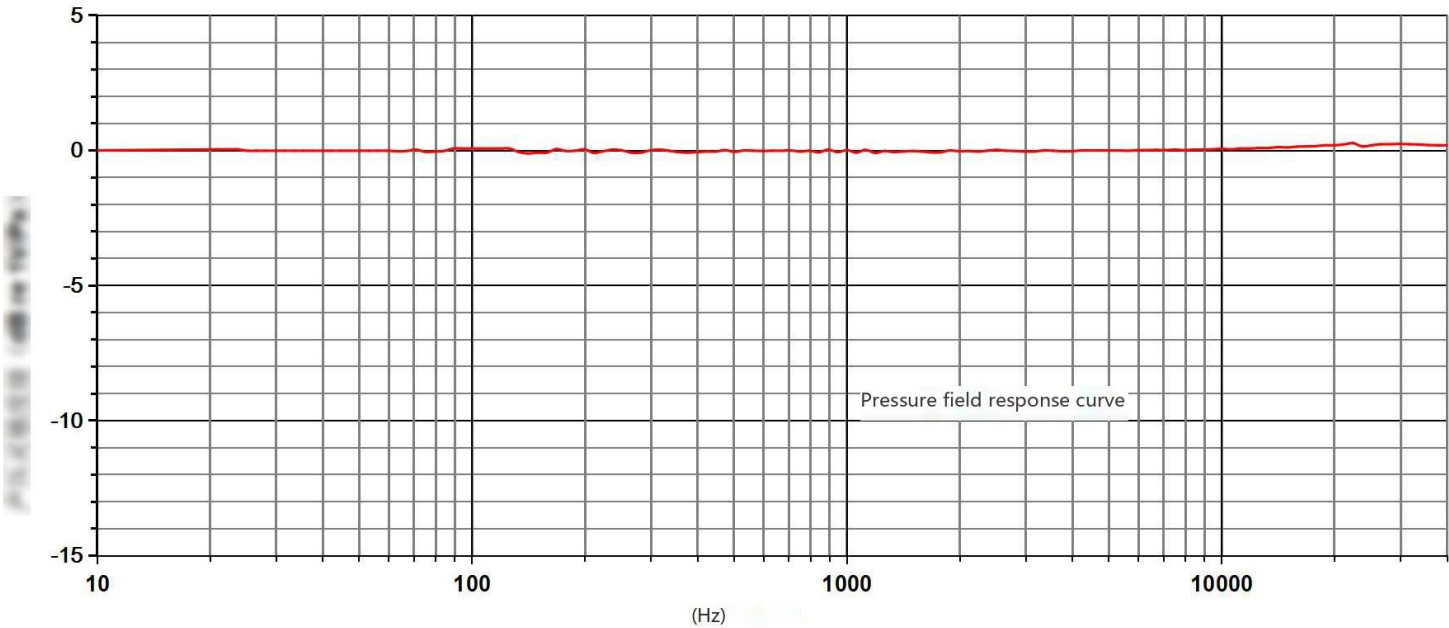
2、 Technical indicators

AWA14434 Measuring Microphone	
Sound field type	Pressure field
diameter	1
Dimensions conform to standard (IEC 61094)	WS3P
Polarization Voltage (V)	0
Sensitivity (mV/Pa) (@250 Hz±2.0 dB)	0.63
Frequency Range (Hz)	3.15~40k
Typical Capacitance (pF) (@250Hz)	3
Dynamic range (dB)	57~175
Background noise (dBA)	≤57
Equal pressure method	Lateral pressure equalization
Operating temperature (°C)	-30~+80
Temperature Coefficient (dB/°C) (@250Hz)	-0.01 (-10 °C~50 °C)
Static pressure coefficient (dB/kPa)	-0.005

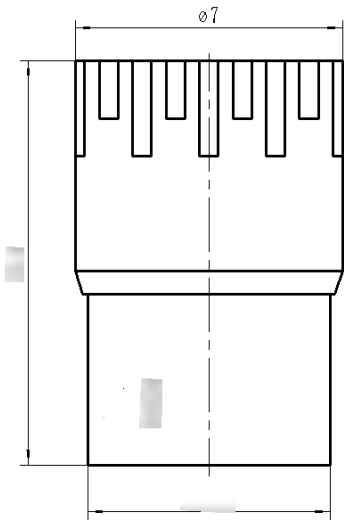
Operating humidity range (%RH)	0~100
Height (including protective cover) (mm)	10.4
Diameter (including protective cover) (mm)	7
Height (excluding protective cover) (mm)	9.1
Diameter (excluding protective cover) (mm)	6.35
Pre amplifier with matching thread	5.7 mm-60 UNS

III. Typical frequency response curve of AWA14434 measuring microphone

Test conditions: Temperature 23 ℃, relative humidity 50 %RH



IV Specification and size



V. Contact Information

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