

AWA14422 Measuring Microphone



I. Introduction

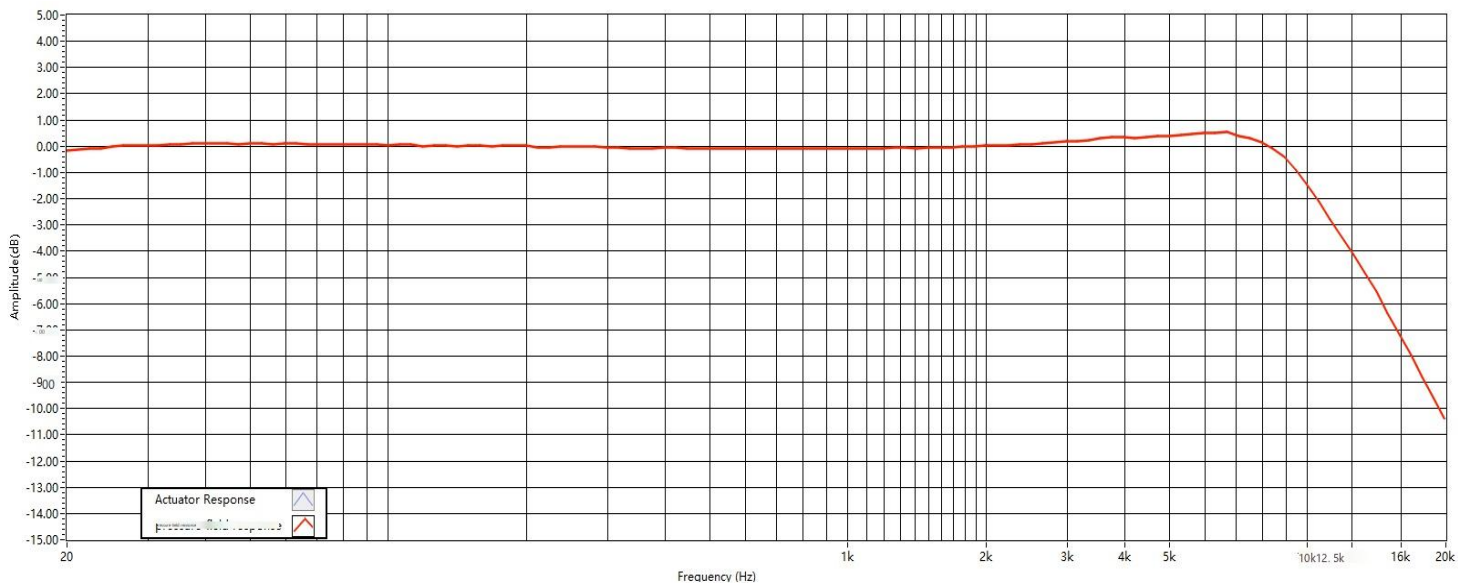
The AWA14422 measuring microphone is a high-performance, affordable pressure field measuring microphone. It can be used with preamplifiers such as the AWA14604E and AWA14600E, primarily for simulating in-ear measurements. The AWA14422 diaphragm is laser-welded, exhibiting good stability and environmental adaptability, meeting the Class 1 engineering measuring microphone requirements of SJ/T 10724. 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, etc., for noise measurement and analysis, and can also replace measuring microphones from other domestic and international brands.

II. Technical Specifications

AWA14422 Measuring Microphone	
Sound Field Type	Free Field
Diameter	1.2 inches
Dimensions conform to standard (IEC61094)	WS2P
Polarization Voltage (V)	0
Sensitivity (mV/Pa) (@250 Hz±2.0 dB)	35. 5
Frequency Range (Hz)	3. 15~8k
Typical Capacitance (pF) (@250Hz)	15
Dynamic range (dB)	20~148
Noise floor (dBA)	≤20
Voltage Equalization Method	Post-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)	17. 5
Diameter (including protective cover) (mm)	13. 2

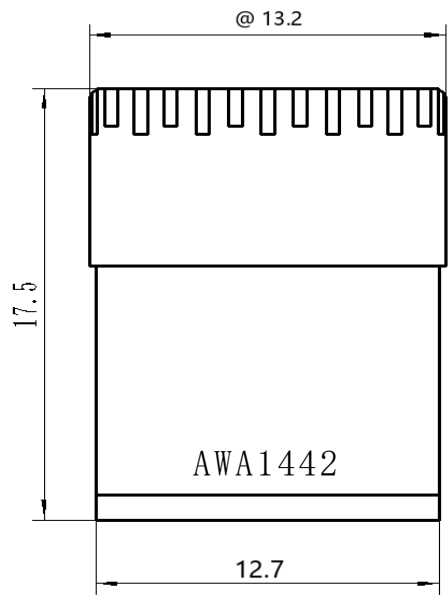
Height (excluding protective cover) (mm)	16.6
Diameter (excluding protective cover) (mm)	12.7
Preamplifier Fitting Thread	11.7 mm-60 UNS

III. Typical frequency response curve of AWA14422 measuring microphone



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

IV. Dimensions



V. Contact Information

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