

Free field microphone kit M 643+A 811

Version: 1.5_EN_20231121



The M 643+A 811 is an IEPE 1/4-inch prepolarized free-field measurement microphone, which is used to measure the undistorted true sound pressure of the microphone before it is placed into the sound field.

All microphones have undergone rigorous environmental aging tests, so that they have the advantages of wide frequency range, wide dynamic range, flat frequency response and long-term stability, which can realize ultra-wide band sound source information acquisition.

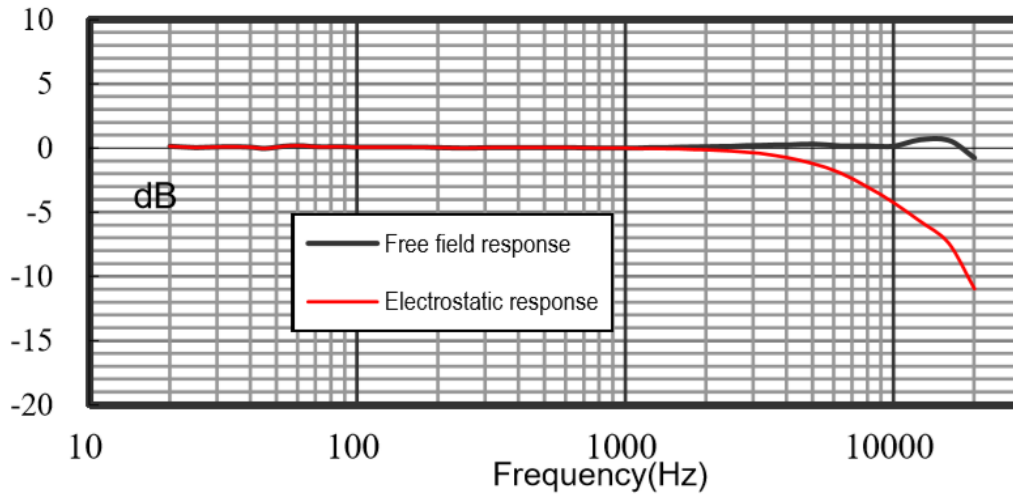
Material

Body	Stainless steel
Diaphragm	Ni
Back plate	Stainless steel
Insulator	Quartz
Electret	Teflon

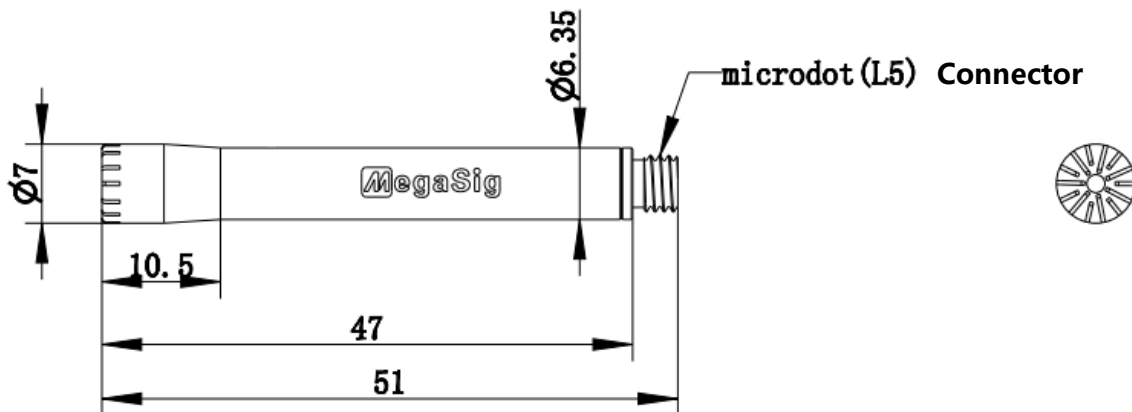
Specifications

Sound field	Free field
Sensitivity mV/Pa (dBV/Pa)	4.5mV/Pa (-47dB ±2dB)
Dynamic range dBA	34~155 (THD<3%)
Frequency Response	20-20kHz ± 2dB
Noise level	<36dBA
Typical capacitance	8.0 pF
Working temperature	-10°C ~ 50°C
Temperature coefficient	-20~60°C, Sound pressure level change < -0.003dB (at 250Hz, Reference temperature 23°C)
Humidity coefficient	20% ~ 90% RH; Sound pressure level change < -0.003 dB (250Hz, Reference temperature 40°C, Reference RH 50%)
Storage condition	Temperature: 25°C±5°C, humidity: 50%±15%RH (to ensure the long-term stability of the sensor)

Typical frequency response curve



Dimensions: mm



MegaSig reserves the right to change specifications and accessories without notice.



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