Free-field Microphone Sets M 645+A 811

Version：2.0_20250522_EN

The M 645+A 811 is an IEPE 1/4 inch pre-polarized free field measuring microphone designed to measure thedistortion-free true sound pressure of the microphone before it is placed into the sound field.

All microphones have the advantages of wide frequency range, wide dynamic range, flat frequency response and long time stability after severe environmental aging test, which can realize ultra-wide band sound source information acquisition.

Product characteristics

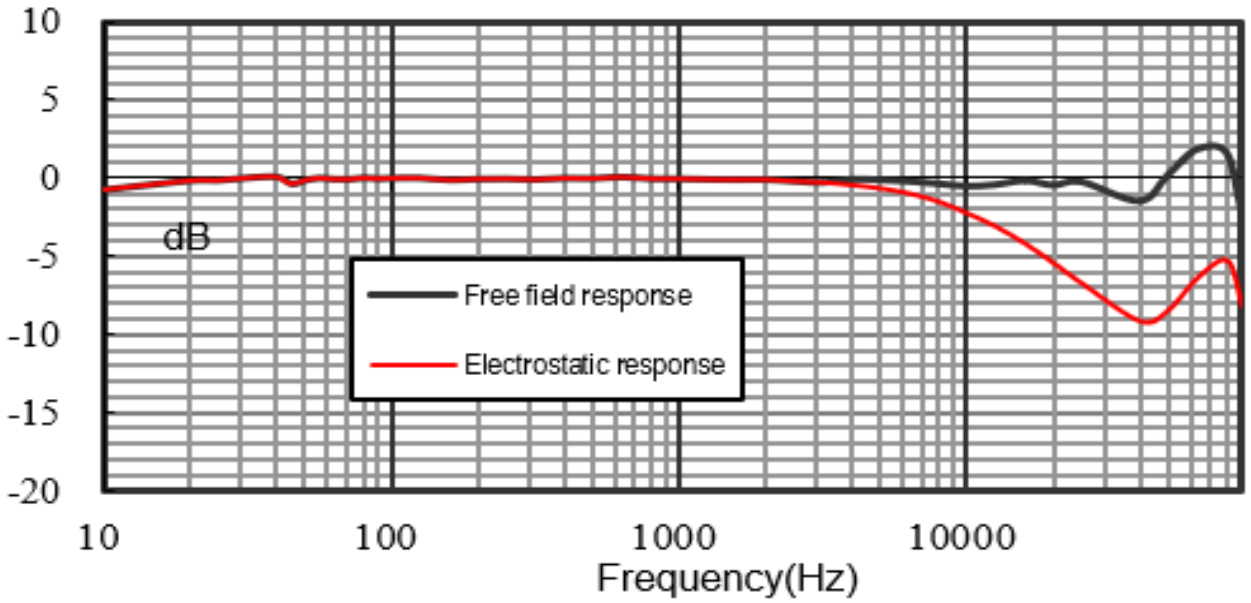
- Compliance with IEC 61094-4 WS3F Specifications for working standard microphones
- Ultra wide dynamic range, ultra wide frequency range
- Suitable for ultrasonic measurement and explosion sound measurement

Specifications

Sound field	Free-field
Polarization	0V（Pre polarized）
Frequency range	10-100kHz ±3dB　20-50kHz ±2dB
Dynamic range	37dB（A）-155dB（1000 Hz THD<3%）
Inherent noise	37dB（A）
Sensitivity mV/Pa(dBV/Pa)	5mV(-46dB) ±2dB
Output level max	5.6V
Output impedance	<50Ω
Power supply min. to max.	2mA-20mA（Typical 4mA）
Microphone venting	Rear
Connect type	Micordot(L5)

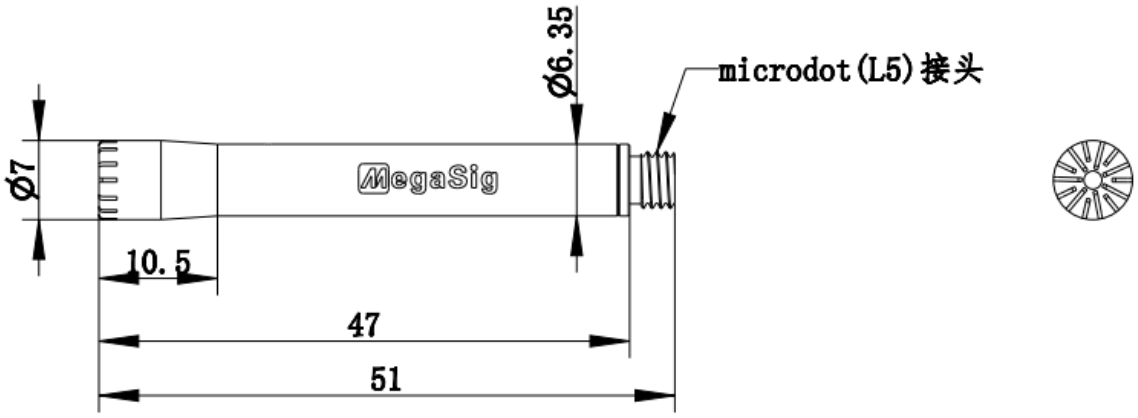
Temperature range,operation	-30℃ to 85
Storage condition	Temperature: 25℃±5℃, humidity: 50%±15%RH (to ensure the long-term stability of the sensor)
Relative humidity	0-90% no condensation
Relative humidity coefficient	<0.1dB(0-90% no condensation)

Free-field Measurement Sets M 645+A 811 Frequency Response



Mechanical dimension

Overall length	51mm (including protection grid)
Diameter	7mm (including protection gate)
Diameter	6.35mm(excluding protection gate)
Lead pole fit thread	5.7mm. 60 UNS 2



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