1/4’’ IEPE ARRAY MICROPOHONES

MPA416/MPA466

MPA416 is 1/4” prepolarized free-field measurement microphone. It is an ideal choice for array applications where a large number of microphones are required.

MPA416 features:

High Sensitivity: 50 mV/Pa. This is a high sensitivity for 1/4” microphones. The advantage of such high sensitivity is to provide high signal output to data acquisition board.

Low Noise Floor: 29 dBA. MPA416 is tested to have noise floor of 29 dBA. It can be used to measure noise from computers, home appliances and other low noise machines.

Flat Frequency Response: 20 Hz ~ 20 kHz. The frequency response complies with IEC 61672 Class 1 tolerances.

Phase Match: Special attentions are paid to phase-match; MPA416 has the guaranteed phase- match tolerances.

MPA416 Applications:

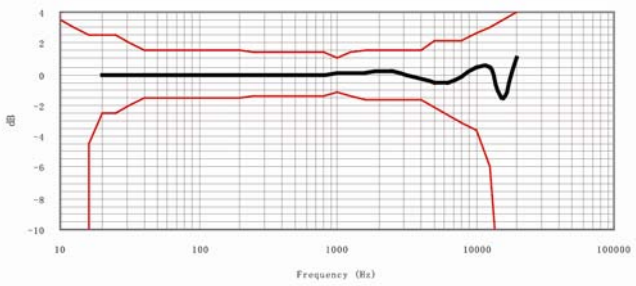
- Microphone array
- General acoustical measurements at controlled environments (in rooms or laboratories)

MPA416 consists of an electret condenser microphone cartridge and IEPE preamplifier (irremovable). Before factory release, all the microphones are going through solid environmental testing, which includes high temperature ageing and high humidity ageing. It is stable microphone for accuracy acoustical measurements.

MPA466 MPA466 is the TEDS version of 1/4” prepolarized free-field measurement microphone which has the information of microphone model, serial number, sensitivity, reference frequency, calibration date, and other information to facilitate plug and play and reduce the setup time of the testing system.

SPECIFICATIONS

ICP MICROPHONE MPA416/466 （TEDS）	
Response	Free-field
Sensitivity	-26 dB±2 dB (ref 1V/Pa) ; or 50mV/Pa.
Equivalent Noise Level	29 dB(A)
Upper Dynamic Limit	127 dB
Frequency Range	20 Hz ~ 20 kHz (complied with IEC 61672 Class 1 requirements at reference conditions)
Power supplier	IEPE
T.H.D	< 3% at 128 dB SPL
Temperature Coefficient：(at 1000 Hz, at reference temperature 23°C)	15 ~ 35°C: <±0.3 dB 0 ~ 40°C : <±1.5 dB -10 ~ 50 °C:<±3.0 dB
Humidity Coefficient	20%~90% RH ; Sound Pressure Level Change < ±0.8 dB at 1000Hz at temperature 30°C, and reference 50% RH
Operating Temperature Range	-10°C~50°C
Polarization Voltage:	0 V



Typical Frequency Response of MPA416/MPA466