

MPA Series Microphones

1/4"



MODEL	MPA416*	MPA436*	MPA418	MPA401	MPA421
Diameter	1/4"	1/4"	1/4"	1/4"	1/4"
Standards (IEC61672)	Class 1	Class 1	Class 2	Class 1	Class 1
Optimized	Free Field	Free Field	Free Field	Free Field	Free Field
Preamplifier	Integrated	Integrated	MA418	MA401	MA421
Frequency Response (Hz)	20 ~ 20k	20 ~ 20k	20 ~ 16k	20 ~ 70k	4-70k (±2dB)
Open-circuit Sensitivity (mV/Pa) (±2dB)	50	12.5	10	5	0.2
Output Impedance (Ω)	< 110	< 110	< 30	< 30	< 30
Dynamic Range (dBA)	29 ~ 127	35 ~ 130	36 ~ 135	35 ~ 155	69 ~ 180
Inherent Noise (dBA)	29	35	36	35	69
Operating Temperature (°C)	-10 ~ 50	-10 ~ 50	0 ~ 40	-20 ~ 80	-20 ~ 80
Operating Humidity (RH)	0 ~ 95%	0 ~ 95%	0 ~ 98%	0 ~ 98%	0 ~ 98%
Temperature Coefficient (dB/°C)	15 ~ 35 °C: < ±0.3 dB; 0 ~ 40 °C: < ±1.5 dB; -10 ~ 50 °C: < ±3.0 dB; with 1 kHz, at ref. temp. 23 °C	23 °C(15 ~ 35 °C): < ±0.3 dB; 0 ~ 40 °C: < ±1.5 dB; -10 ~ 50 °C: < ±3.0 dB; with 1000Hz, at ref. temp. 23 °C	< ±0.6 (0 ~ 40 °C) at reference temp. 23 °C	-0.02	-0.02
Humidity Influence	20% ~ 90% RH: < ±0.8 dB with 1kHz, at reference tmp. 23 °C Humidity 50% RH	20% ~ 90% RH: < ±0.8 dB with 1kHz, at reference tmp. 23 °C Humidity 50% RH	< 0.5	< 0.1	< 0.1
Pressure Coefficient (250 Hz) (dB/kPa)	-0.004	-0.06	-0.06	-0.007	-0.007
Length (mm)	61	24	64	67	67
Input Connector	SMB	SMB	SMB	SMB	SMB
Corresponding Model with TEDS	MPA466	—	MPA468	MPA461	MPA471

*The MPA416 & MPA436 are the most suitable models for array uses. The frequency responses meet the IEC 61672 Class 1 requirements.