

MPA Series Microphones

MPA201 / MPA231 / MPA215 / MPA241 / MPA416 / MPA436 / MPA418 / MPA401 / MPA421

Model	MPA201	MPA231	MPA215	MPA241	MPA416*	MPA436*	MPA418	MPA401	MPA421
Photos									
Diameter	1/2"	1/2"	1/2"	1/2"	1/4"	1/4"	1/4"	1/4"	1/4"
Standards (IEC61672)	Class 1	Class 1	Class 2	Class 1	Class 1	Class 1	Class 2	Class 1	Class 1
Microphone	MP201	MP231	MP215	MP241	Integrated	Integrated	MP418	MP401	MA421
Optimized	Free Field	Free Field	Free Field	Free-field, the overall specifications can be as diffused-field.	Free Field	Free Field	Free Field	Free Field	Free Field
Preamplifier	MA231(TEDS optional)	MA231(TEDS optional)	MA231(TEDS optional)	MA241	Integrated	Integrated	MA418	MA401	MA421
Frequency Response (Hz)	20 ~ 20k	20 ~ 20k	20 ~ 12.5k	20 ~ 20k	20 ~ 20k	20 ~ 20k	20 ~ 16k	20 ~ 70k	4-70k (±2dB)
Open-circuit Sensitivity (mV/Pa) (±2dB)	45	40	40	40	50	12.5	10	5	0.2
Output Impedance (Ω)	< 30	< 30	< 30	< 30	< 110	< 110	< 30	< 30	< 30
Dynamic Range (dBA)	17 ~ 134	18 ~ 136	23 ~ 135	18 ~ 136	29 ~ 127	35 ~ 130	36 ~ 135	35 ~ 155	69 ~ 180
Inherent Noise (dBA)	17	18	23	18	29	35	36	35	69
Operating Temperature (°C)	-30 ~ 80	-30 ~ 80	-20 ~ 80	-30 ~ 80	-10 ~ 50	-10 ~ 50	0 ~ 40	-20 ~ 80	-20 ~ 80
Operating Humidity (RH)	0 ~ 95%	0 ~ 95%	0 ~ 95%	0 ~ 95%	0 ~ 95%	0 ~ 95%	0 ~ 98%	0 ~ 98%	0 ~ 98%
Temperature Coefficient (dB/°C)	-0.012	-0.012	<± 0.3 dB (0 ~ 40 °C) with 250Hz, at reference temperature 23 °C	-0.012	15 ~ 35 °C: < ±0.3 dB; 0 ~ 40 °C: < ±1.5 dB; -10 ~ 50 °C: < ±3.0 dB; with 1000Hz, at reference temperature 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 reference temperature 23 °C	<± 0.6 (0 ~ 40 °C) at reference temperature 23 °C	-0.02	-0.02
Humidity Influence	< 0.1	< 0.1	< 0.2	< 0.1	20% ~ 90% RH: < ±0.8 dB with 1000Hz, at reference temperature 23 °C, Humidity 50% RH	20% ~ 90% RH: < ±0.8 dB with 1000Hz, at reference temperature 23 °C, Humidity 50% RH	< 0.5	< 0.1	< 0.1
Pressure Coefficient (250 Hz) (dB/kPa)	-0.004	-0.004	-0.03	-0.004	-0.06	-0.06	-0.06	-0.007	-0.007
Length (mm)	91	91	91	21.5 x 21.5 x 41.0	61	24	64	67	67
Input Connector	BNC	BNC	BNC	SMB	SMB	SMB	SMB	SMB	SMB
Corresponding Model with TEDS	MPA261	MPA271	MPA265	--	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.