MPA Series Microphones

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

Model	MPA201	MPA231	MPA215	MPA416*	MPA436*	MPA418	MPA401
Photos							
Diameter	1/2″	1/2″	1/2″	1/4″	1/4″	1/4″	1/4″
Standards (IEC61672)	Class I	Class I	Class II	Class I	Class I	Class II	Class I
Microphone	MP201	MP231	MP215	Integrated	Integrated	MP418	MP401
Optimized	Free Field	Free Field	Free Field	Free Field	Free Field	Free Field	Free Field
Preamplifier	MA231(TEDS optional)	MA231(TEDS optional)	MA231(TEDS optional)	Integrated	Integrated	MA418	MA401
Frequency Response (Hz)	20 ~ 20k	20 ~ 20k	20 ~ 12.5k	20 ~ 20k	20 ~ 20k	20 ~ 16k	20 ~ 70k
Open-circuit Sensitivity (mV/Pa) (±2dB)	45	40	40	50	12.5	10	5
Output Impedance (Ω)	< 50	< 50	< 110	< 110	< 110	< 110	< 110
Dynamic Range (dBA)	16 ~ 134	17 ~ 136	23 ~ 135	29 ~ 127	35 ~ 130	36 ~ 135	35 ~ 155
Inherent Noise (dBA)	< 16	< 17	< 23	< 29	< 35	< 36	< 35
Operating Temperature (°C)	-30 ~ 80	-30 ~ 80	-20 ~ 80	-10 ~ 50	-10 ~ 50	0 ~ 40	-20 ~ 80
Operating Humidity (RH)	0 ~ 95%	0 ~ 95%	0 ~ 95%	0 ~ 95%	0 ~ 95%	0 ~ 98%	0 ~ 98%
Temperature Coefficient (dB/°C)	0.005	0.005	<± 0.3 dB (0 ~ 40 °C) with 250Hz, at reference temperature 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	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	-0.009
Humidity Coefficient (dB/%RH)	0.003	0.003	0.007	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	0.015	0.003
Pressure Coefficient (250 Hz) (dB/kPa)	-0.004	-0.004	-0.03	-0.06	-0.06	-0.06	-0.007
Length (mm)	91	91	91	61	24	64	67
Input Connector	BNC	BNC	BNC	SMB	SMB	SMB	SMB
Corresponding Model with TEDS	MPA261	MPA271	MPA265	MPA466	--	--	--

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