Preamplifiers

MA231 / MA221 / MA231T / MA401 / MA418 / MV201 / MV401

Model	MA231	MA221	MA231T	MA401	MA418	MV201	MV401
Photos							
Diameter	1/2″	1/2″	1/2″	1/4″	1/4″	1/2″	1/4″
Frequency Response (Hz) (±0.5dB)	19 ~ 150k	19 ~ 150k	19 ~ 150k	19 ~ 150k	19 ~ 150k	1 ~ 1M	1 ~ 1M
Attenuation (dB) (10 Hz ~ 100k Hz)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.5
Input Impedance (GΩ||pF)	20||0.1	20||0.1	20||0.1	20||0.2	20||0.2	10||0.2	10||0.2
Output Impedance (Ω)	< 50	< 50	< 50	< 50	< 50	< 80	< 100
Inherent Noise	A Weighted < 3 μV 20 Hz ~ 20k Hz < 5 μV	A Weighted < 3 μV 20 Hz ~ 20k Hz < 5 μV	A Weighted < 3 μV 20 Hz ~ 20k Hz < 5 μV	A Weighted < 3 μV 20 Hz ~ 20k Hz < 5 μV	A Weighted < 3 μV 20 Hz ~ 20k Hz < 5 μV	A Weighted (20 pF) < 5 μV Z Weighted (20 pF) < 10 μV	A Weighted (20 pF) < 5 μV Z Weighted (20 pF) < 20 μV
Max. Output Voltage (Vrms)	5	5	5	5	5	23	23
Supply Power	ICCP (2 ~ 20 mA)	ICCP (2 ~ 20 mA)	ICCP (2 ~ 20 mA)	ICCP (2 ~ 20 mA)	ICCP (2 ~ 20 mA)	28 - 120 VDC	28 - 120 VDC
Operating Temperature (°C)	-40 ~ 80	-40 ~ 80	-40 ~ 80	-40 ~ 80	-40 ~ 80	-10 ~ 50	-10 ~ 50
Operating Humidity (RH)	0 ~ 95%	0 ~ 95%	0 ~ 95%	0 ~ 95%	0 ~ 95%	0 ~ 95%	0 ~ 95%
Dimensions	Ø12.7 × 74 mm	Ø12.7 × 31.7 mm	Ø12.7 × 90 mm	Ø7 × 56 mm	Ø7 × 56 mm	Ø12.7 × 86.6 mm	Ø6.3 × 63 mm
Connector	BNC	SMB	TNC	SMB	SMB	7-pin LEMO	7-pin LEMO
Screw Thread	M 11.7 mm × 60 UNS	M 11.7 mm × 60 UNS	M 11.7 mm × 60 UNS	M 5.7 mm × 60 UNS	M 6 mm × 0.5 UNS	M 11.7 mm × 60 UNS	M 5.7 mm × 60 UNS

Notice: ICCP = Integrated Constant Current Power