



MV 225

½" microphone preamplifier

for externally polarized microphones

- XLR
- microphone power supply: P 48
- capsule polarization voltage
200 V
- 20 Hz to 100 kHz
- max. output voltage: 7.5 V

Delivery	Typ	Order-No.
Microphone preamplifier, satin nickel, in wooden case	MV 225	311218
Options and Accessories	Typ	Order-No.
Microphone holder 21 mm, turnable	MH 93	202325
Microphone holder 21 mm	MH 93.1	202304
Microphone holder 21 mm	MH 22	302350
Adapter for 1" microphone to ½" preamplifier	A 63.1	302302
Adapter for ¼" microphone to ½" preamplifier	A 67	302305
Angle adapter for ½" microphone to ½" preamplifier	WA 20	302334
Dehumidifier adapter ½"	TA 202 L	302349
Measurement capacitor ½"	K 65	302307
XLR cable, 10 m	C 70.1	202212
XLR cable, RFI shielded, 10 m	C 70.1 HF	302213

MV 225



Current consumption		5.5 mA
Frequency range	-0.2 dB	20 Hz to 100 kHz
Gain, 1 kHz	$R_L = 100\text{ k}\Omega$	-0.1 dB
	$R_L = 1\text{ k}\Omega$	-0.9 dB
Gain, 20 Hz	$R_L = 1\text{ k}\Omega$	-2.0 dB
Input impedance		10 G Ω ; <0.4 pF
Output impedance		$\leq 100\ \Omega$
Max. output voltage	1% THD, $R_L = 100\text{ k}\Omega$	7.5 V _{rms}
	0.5% THD, $R_L = 1\text{ k}\Omega$	6.5 V _{rms}
Inherent noise, $R_L = 1\text{ k}\Omega$, C = 3.3 nF	A-weighted	$\leq 770\text{ nV}_{rms}$
	linear	$\leq 3.3\ \mu\text{V}_{rms}$
Inherent noise, $R_L = 100\text{ k}\Omega$, C = 3.3 nF	A-weighted	$\leq 880\text{ nV}_{rms}$
	linear	$\leq 3.7\ \mu\text{V}_{rms}$
Polarization voltage		200 V
Temperature range, operation		-10°C to +50°C
Temperature range, storage		-20°C to +70°C
Humidity limits	non condensing	r.H. $\leq 90\%$
Connector		XLR-3M
Thread	for microphone	11.7 mm 60 UNS
Diameter		12.7 mm / 21 mm
Length		158 mm
Weight		115 g

Microphone capsule		MK 102		MK 221		MK 211		MK 301	
Load impedance		100 k Ω	1 k Ω	100 k Ω	1 k Ω	100 k Ω	1 k Ω	100 k Ω	1 k Ω
Max. SPL	0.5% THD		136 dB		136 dB		147 dB		156 dB
	1.0% THD	137 dB		138 dB		149 dB		159 dB	
Max. U _{OUT}	0.5% THD		6.3 V _{rms}		6.2 V _{rms}		6.2 V _{rms}		6.5 V _{rms}
	1.0% THD	7.0 V _{rms}		8.0 V _{rms}		8.0 V _{rms}		9.0 V _{rms}	
Gain	10 Hz	-0.3 dB	-3.2 dB	-0.8 dB	-3.6 dB	-0.8 dB	-3.6 dB	-2.0 dB	-4.9 dB
	1 kHz	-0.2 dB	-1.0 dB	-0.7 dB	-1.5 dB	-0.7 dB	-1.5 dB	-2.0 dB	-2.8 dB
	20 kHz	-0.2 dB	-1.0 dB	-0.7 dB	-1.5 dB	-0.7 dB	-1.5 dB	-2.0 dB	-2.8 dB
	40 kHz					-0.7 dB	-1.5 dB		
	100 kHz							-1.8 dB	-2.6 dB
Inherent noise	A-weighted	3.5 μV	3.2 μV	5.6 μV	5.1 μV	3.6 μV	3.3 μV	3.7 μV	3.4 μV
	CCIR-weighted	14.0 μV	13.0 μV	24.7 μV	22.6 μV	15.5 μV	14.1 μV	14.0 μV	12.8 μV
	IEC 268-4	11 dB(A)		15 dB(A)		22 dB(A)		36 dB(A)	
	CCIR 468-4	23 dB(A)		28 dB(A)		35 dB(A)		48 dB(A)	