

Microphone Preamplifiers

ZT's preamplifiers are engineered with the utilization of Constant Current Power technology, embodying a set of distinctive attributes. These attributes encompass high input impedance, low output impedance, low noise, wide frequency response range, and more. This amalgamation of features renders our preamplifiers exceptionally versatile and well-suited for diverse scenarios, including electro-acoustic testing systems and multi-channel noise analysis.

ZT's commitment to excellence ensures that our preamplifiers provide optimal performance, facilitating accurate and reliable signal amplification across a spectrum of applications.

	ZT-507	ZT-508	ZT-510	ZT-512	ZT-547
Picture					
Microphone Cartridge Size to Fit	1/2"	1/2"	1/2"	1/2"	1/4"
Frequency response range	20 Hz - 50 kHz (± 0.2 dB), 10 Hz - 100 kHz (± 0.5 dB)	20 Hz - 50 kHz (± 0.2 dB), 10 Hz - 100 kHz (± 0.5 dB)	20 Hz - 50 kHz (± 0.2 dB), 10 Hz - 100 kHz (± 0.5 dB)	20 Hz - 50 kHz (± 0.2 dB), 10 Hz - 100 kHz (± 0.5 dB)	10 Hz - 80 kHz (± 0.2 dB)
Input impedance	>10 G Ω / 0.5 pF	>10 G Ω / 0.5 pF	>10 G Ω / 0.5 pF	>2 G Ω / 0.5 pF	>2 G Ω / 0.5 pF
Output impedance	<20 Ω	<20 Ω	<20 Ω	<20 Ω	<20 Ω
Distortion factor (THD)	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%
Max. output voltage	>5.0 Vrms (+24 V available)	>5.0 Vrms (+24 V available)	>5.0 Vrms (+24 V available)	>5.0 Vrms (+24 V available)	>5.0 Vrms
Power Supply Mode	IEPE (2 mA - 10 mA)	IEPE (2 mA - 10 mA)	IEPE (2 mA - 10 mA)	IEPE (2 mA - 10 mA)	IEPE (2 mA - 10 mA)
Noise (A-weighted)	<3 μ Vrms	<3 μ Vrms	<3 μ Vrms	<3 μ Vrms	<3 μ Vrms
Noise, linear (20 - 20 kHz)	<10 μ Vrms	<10 μ Vrms	<10 μ Vrms	<10 μ Vrms	<10 μ Vrms
Gain	-0.3dB	-0.3dB	-0.3dB	-0.3dB	0 dB
Port type	BNC	BNC	SMB	SMB	SMB
Applicable temperature range	-30 $^{\circ}$ C - +70 $^{\circ}$ C	-30 $^{\circ}$ C - +70 $^{\circ}$ C	-30 $^{\circ}$ C - +70 $^{\circ}$ C	-30 $^{\circ}$ C - +70 $^{\circ}$ C	-30 $^{\circ}$ C - +70 $^{\circ}$ C
Thread interface	11.7mm x 60UNS (M11.7x0.423mm)	11.7mm x 60UNS (M11.7x0.423mm)	11.7mm x 60UNS (M11.7x0.423mm)	11.7mm x 60UNS (M11.7x0.423mm)	5.7mmx60UNS (M5.7x0.423mm)
Diameter	12.7mm (1/2")	61mm	12.7mm (1/2")	12.7mm (1/2")	6.35mm (1/4")
Typical operating current	4 mA	4 mA	4 mA	4 mA	4 mA