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PNP  
22

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# PLACID PNP22

1/2" Standard Preamplifier



## Specification

Frequency Range  
5.0 Hz to 100 kHz

Noise  
< 2.0  $\mu$ V

Usage  
General purpose

The PLACID PNP22 1/2" Preamplifier is a robust preamplifier designed to be used for acoustic measurements with condenser microphones. The self-noise is very low, it has a wide dynamic range and frequency response.



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## Specification

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### Design

All PLACID ICCP microphone preamplifiers are designed for ¼", ½" and 1" condenser microphones.

The preamplifiers are optimized to have a flat frequency response which will ensure high quality acoustic measurements.

### Self Noise

The electrical circuit has especially been designed to ensure a low self-noise level which typically be much lower than the self-noise of the microphone cartridge.

### Impedance

The PLACID PNP22 input impedance is over 5  $\Omega$ , the output impedance is less than 110  $\Omega$ .

### Daily usage

- General-purpose preamplifier
- High-frequency measurements
- High-pressure measurements



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## Datasheet PLACID PNP22 Preamplifier



Frequency Response (Ref. 250 Hz, 0.2 dB)	Hz	5.0 to 100 kHz
Slew Rate	V/ $\mu$ s	3.5
Input Impedance	G $\Omega$	$\triangleright$ 5
Output Impedance	$\Omega$	< 110
Max Output Voltage	V <sub>rms</sub>	8.0
Noise (A-Weighted)	$\mu$ V	< 2.0
Noise (Linear 20 Hz – 20 kHz)	$\mu$ V	< 6.0
Gain	dB	- 0.15
DC – offset, minimum	V	15
DC- offset, maximum	V	24
Power Requirement	mA	ICP 2 to 20
Temperature operational range	Celcius	- 40 to 100
Temperature storage range	Celcius	-40 to 100
Humidity operational range noncondensing	% Rh	0 to 98
Output Connector Type		SMB
Diameter	Inch	$\frac{1}{2}$
Weight	Gram	14.5
Length	mm	35.0