



# CRY3521

## 1/2", IEPE Microphone Preamplifier With BNC Connector, Base-Type

### Features

- **Key Specifications**

Frequency Range	10 Hz to 100 kHz ( $\pm 0.5$ dB)
Power Supply	IEPE (2mA to 20mA)
Max Output Voltage	>7.0Vp

- **Applications**

Ear simulator measurement  
For use with prepolarized condenser microphones

### Introduction

CRY3521 is a pedestal-type universal measuring microphone preamplifier that can be used with all prepolarized condenser microphones.

The CRY3521 converts high input impedance to low output impedance, allowing longer extension cords to be used. Its advantages include low background noise and almost no load on the microphone. It can be used together with the CRY3711 ear simulator or the CRY3718 ear simulator for acoustic testing.

### Highlights

- **What is IEPE?**

IEPE is a generic name for CRY SOUND products which operate on a constant current power supply. IEPE products give output signals in the form of voltage modulation on the power supply line. One of the advantages of this is that you can use inexpensive coaxial cables.

- **Compatibility**

The CRY3521 IEPE preamplifier is compatible with CRY SOUND prepolarized measurement microphones and can be used together with data acquisition hardware that supports IEPE microphones, such as the CRY6151B electroacoustic analyzer.

- **Calibration**

Each CRY SOUND preamplifier is calibrated at the factory using traceable calibration equipment. Calibration certificates are provided with each unit. CRY SOUND recommends recalibration at least once a year.

- **Quality & Warranty**

All CRY SOUND preamplifiers are made of stainless steel with good corrosion resistance and robustness, suitable for long-term storage.

CRY SOUND preamplifiers are supported by a 10-year warranty—offering one of the best service guarantee in the world.

## Technical Specifications

### Specifications

Frequency Response	20 Hz to 50 kHz ( $\pm 0.2$ dB) 10 Hz to 100 kHz ( $\pm 0.5$ dB)
Input Impedance	$> 2 \text{ G}\Omega/0.5\text{pF}$
Output Impedance	$< 20 \Omega$
Distortion (THD)	$< 0.1\%$
Max Output Voltage	$> 7.0 \text{ Vp}$ (power supply for +24V)
Power Supply	IEPE (2 mA to 20 mA, Typical: 4 mA)
Noise (A-weighting)	$< 3 \mu\text{Vrms}$
Noise (linear 20 Hz to 20kHz)	$< 10 \mu\text{Vrms}$
DC Bias voltage	$12 \text{ V} \pm 2 \text{ V}$
Connector Type	BNC
Temperature	$-30^\circ\text{C}$ to $+70^\circ\text{C}$ ( $-22^\circ\text{F}$ to $158^\circ\text{F}$ )
Thread Interface Diameter	11.7 mm-60 UNS

### Dimensions

Height	27 mm (1.063")
Diameter	61 mm (2.402")

### Drawings(mm)[inch]

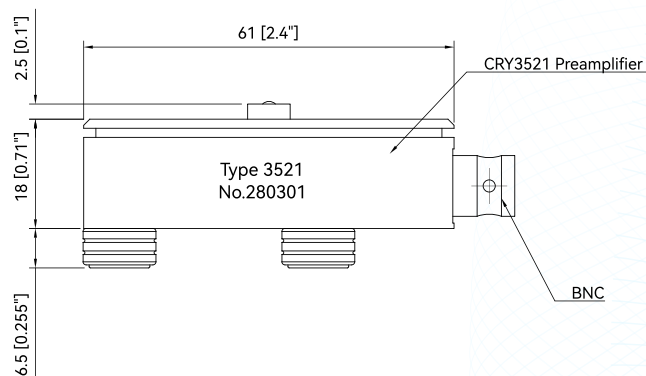


Fig.1 CRY3521 preamplifier Drawings

## Ordering Information

### Optional Accessories

Microphone Cartridges	CRY3101 1" Free-field Prepolarized Microphone CRY3203 1/2" Free-field Preamplifier Microphone CRY3404 1/4" Pressure-field Prepolarized Microphone
Electroacoustic Analyzer	CRY6151B Electroacoustic Analyzer
Power Supply	CRY575 Three-Channel Microphone Power Supply
Cable	BL5001 BNC to BNC Cable /1.6m BL5001 BNC to BNC Cable /1.0m BL5001 BNC to BNC Cable /3.2m BL5001 BNC to BNC Cable /5.0m

### Related Products

CRY3501	1/2" IEPE microphone preamplifier with BNC connector and TEDS
CRY3502	1/2" IEPE microphone preamplifier with SMB connector and TEDS, very short
CRY3503	1/2" IEPE microphone preamplifier with 10-32UNF connector and TEDS, very short
CRY3541	1/4" IEPE microphone preamplifier with SMB connector and TEDS
CRY3543	1/4" IEPE microphone preamplifier with 10-32UNF connector and TEDS