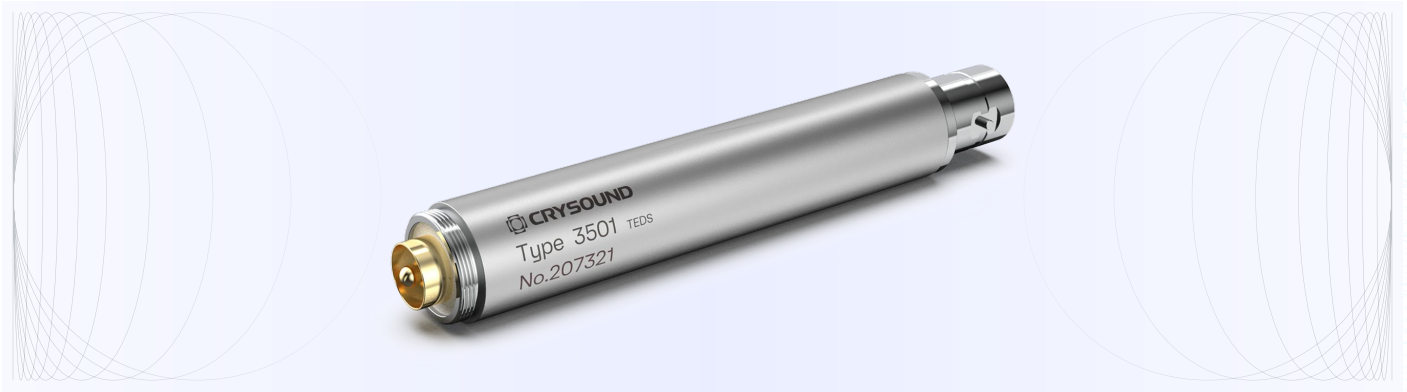




CRY3501

1/2" IEPE Microphone Preamplifier with BNC Connector and TEDS

Features

- **Key Specifications**

Frequency Range	0.6 Hz to 100 kHz (± 0.2 dB)
Input Impedance	$> 15\text{ G}\Omega/0.4\text{ pF}$
Output Impedance	$< 35\text{ }\Omega$

- **Applications**

For use with prepolarized condenser microphones.

Introduction

The CRY3501 is a general purpose measurement microphone preamplifier that can be used with all prepolarized condenser microphones.

CRY3501 converts high input impedance to low output impedance, allowing the use of longer extension cables; The advantages of low background noise, almost will not cause load to the microphone; It supports TEDS function, which can reduce the test time; Good design and toughness make it suitable for a wide range of environmental conditions.

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 CRY3501 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.

- **TEDS**

CRY3501 supports the Transducer Electronic Data Sheet (TEDS) conforming to the IEEE 1451.4 V1.0 standard. It is capable of being compatible with smart sensor technology to facilitate the integration and automated management of sensor information.

- **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	0.6 Hz to 100 kHz (±0.2 dB)
Input Impedance	>15 GΩ/0.4pF
Output Impedance	<35 Ω
Attenuation	-0.4 dB
Distortion (THD) at 1Vout	-80dB @1kHz (0.01%) -80dB @10kHz (0.01%)
Phase Linearity (re. 1kHz)	1 kHz to 10 kHz <±1° 100 Hz to 20 kHz <-3°, +10°
Power Supply	IEPE(2 mA to 20 mA , Typical: 4 mA)
Max Output Voltage	>9.0 Vp
Noise (A-weighting)	<3 μVrms
Noise (linear 20 Hz to 20kHz)	<7 μVrms
DC Bias Voltage	12 V ± 2 V
Output Slew rate	7 V/μs
Connector Type	BNC
Temperature	-30°C to +70°C(86°F to 158°F)
Thread Interface Diameter	11.7 mm-60 UNS

Ordering Information

Optional Accessories	
Microphone Cartridges	1" Prepolarized Microphone 1/2" Prepolarized Microphone 1/4" Prepolarized Microphone
Adapter	TA0501 1/2" to 1" Adapter Ring TA0503 1/2" to 1/4" Adapter Ring
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

Dimensions	
Height	80.5mm (3.17")
Diameter	12.7mm (0.5")

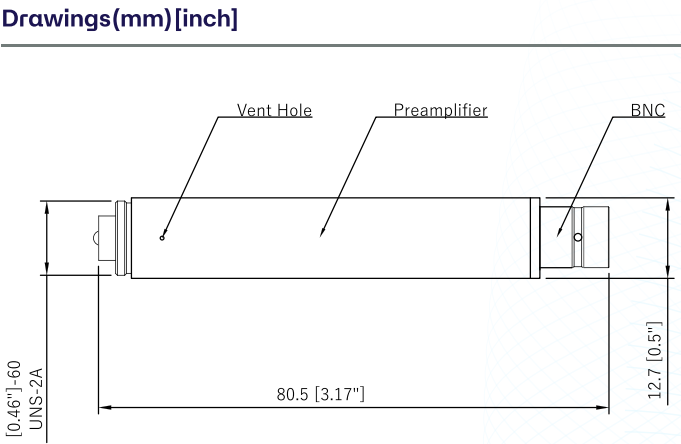


Fig.1 CRY3501 preamplifier Drawings

Related Products	
CRY3502	1/2" IEPE microphone preamplifier with SMB connector and TEDS, very short
CRY3503	1/2" IEPE microphone preamplifier with Microdot connector and TEDS, very short
CRY3521	1/2" IEPE microphone preamplifier with BNC connector, base-type
CRY3541	1/4" IEPE microphone preamplifier with SMB connector and TEDS
CRY3543	1/4" IEPE microphone preamplifier with Microdot connector and TEDS

