CRY3544

1/4", IEPE Microphone Preamplifier with 10-32UNF Connector, Short

Features

- **Key Specifications**

Frequency Range	3 Hz to 150 kHz (±0.2 dB)
Power Supply	IEPE (2mA to 20mA)
Max Output Voltage	>8.0 Vp

- **Applications**

  For use with prepolarized condenser microphones

Introduction

The CRY3544 is a general purpose measurement microphone preamplifier that can be used with all prepolarized condenser microphones.

CRY3544 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; Good design and toughness make it suitable for a wide range of environmental conditions.

Highlights

- **IEPE**

  IEPE is a generic name for CRYSOUND 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 CRY3544 IEPE preamplifier can be used with prepolarized measurement microphones that comply with the IEC 61094 standard. It can also be used with data acquisition hardware that supports IEPE microphones, such as the CRY6151B electroacoustic analyzer.

- **Calibration**

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

- **Quality & Warranty**

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

  CRYSOUND preamplifiers enjoy a 10-year warranty period. We will provide users with comprehensive after-sales support services.

Technical Specifications

Specifications

Frequency Response	3 Hz to 150 kHz (±0.2 dB)
Input Impedance	> 22 GΩ/0.4pF
Output Impedance	< 50 Ω
Distortion (THD) at 1Vout	-74dB @1kHz (0.025%) -74dB @10kHz (0.025%)
Power Supply	2 mA to 20mA (Typical 4 mA)
Max Output Voltage	> 8.0 Vp
Noise (A-weighting)	< 3.5 μVrms
Noise (linear 20 ~ 20kHz)	< 4 μVrms
DC Bias Voltage	12 V±2 V
Voltage Linearity	< 0.2 (-90dBV - +15dBV)
Connector Type	10-32UNF
Temperature	-30℃ to +70℃(-22℉ to 158℉)
Thread Interface Diameter	5.7 mm-60 UNS

Dimensions

Height	33.8mm (1.331")
Diameter	6.35mm (0.25")

Drawings(Mm)[Inch]

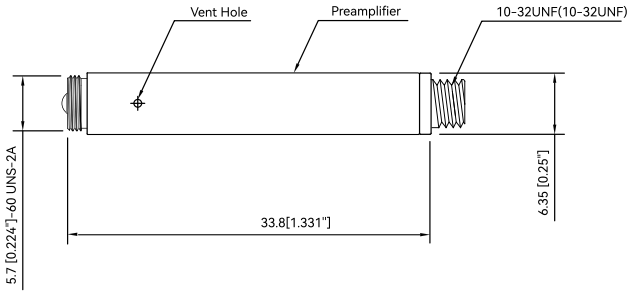

Fig.1 CRY3544 preamplifier Drawings

Ordering Information

Optional Accessories

Microphone Cartridges	CRY3203 1/2" Free-field Prepolarized Microphone CRY3404 1/4" Pressure-field Prepolarized Microphone
Adapter	TA0502 1/4" to 1/2" Adapter Ring
Power Supply	CRY575 Three-channel Microphone Power Supply
Cable	10-32UNF to BNC Cable / 1.5m

Related Products

CRY3501	1/2" IEPE microphone preamplifier with BNC connector and TEDS
CRY3521	1/2" IEPE microphone preamplifier with BNC connector, base-type
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
CRY3542	1/4", IEPE microphone preamplifier with SMB connector and TEDS, short