



CRY3541

1/4", IEPE Microphone Preamplifier with SMB Connector and TEDS

Features

Key Specifications

Frequency Range Power Supply Max Output Voltage 1 Hz to 200 kHz (±0.2 dB) IEPE(2mA to 20mA) >10.0Vp

Applications

For use with prepolarized condenser microphones

Introduction

The CRY3541 is a general purpose measurement microphone preamplifier that can be used with all prepolarized condenser microphones.

CRY3541 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 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 CRY3541 IEPE preamplifier is compatible with CRYSOUND prepolarized measurement microphones and can be used together with data acquisition hardware that supports IEPE microphones, such as the CRY6151B electroacoustic analyzer.

TEDS

CRY3541 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 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 are supported by a 10-year warranty—offering one of the best service guarantee in the world.



Technical Specifications

Specifications Eraguanay Paganana	1 Hz +a 200 kHz (+0 2 dP)
Frequency Response	1 Hz to 200 kHz (±0.2 dB)
Input Impedance	> 28 GΩ/0.4pF
Output Impedance	< 50 Ω
Attenuation	-0.4 dB
Distortion (THD) at 1Vout	-74 dB @1kHz (0.02%) -74 dB @10kHz (0.02%)
Phase Matching	1kHz to 10kHz: <0.01° 100Hz to 20kHz: <0.02°
Power Supply	IEPE(2 mA to 20 mA , Typical: 4 mA)
Max Output Voltage	> 10.0 Vp
Noise (A-weighting)	< 3.0 μVrms
Noise (linear 20 Hz to 20kHz)	< 4.0 μVrms
DC Bias Voltage	12 V ±2 V
Output Slew Rate	3 V/μs
Start-up Time	<1 s
voltage linearity	< 0.1 dB (-90dBV to +15dBV)
Temperature	-40°C to +80°C(-40°F to 176°F)
Humidity	0 to90%RH, no condensation
Connector Type	SMB
Thread Interface Diameter	5.7 mm-60 UNS

Dimensions		
Height	47.75mm (1.88")	
Diameter	6.35mm (0.25")	

Drawings(mm)[inch]

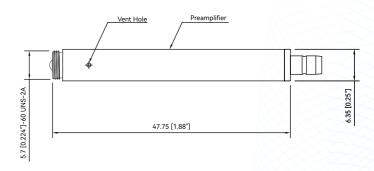


Fig.1 CRY3541 preamplifier Drawings

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

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	
CRY3542	1/4", IEPE microphone preamplifier with SMB connector and TEDS, short	
CRY3543	1/4" IEPE microphone preamplifier with 10–32UNF connector and TEDS	