



CRY3261-S02

1/2" Free-Field, Prepolarized, Ultra-low noise Microphone Set

Features

Key Specifications

Nominal Sensitivity Dynamic Range Frequency Range 450 mV/Pa 6.5 dB to 100 dB 6 Hz to 20 kHz

Applications

Low-noise Testing
Product Self-noise Testing
Home Appliance Noise Measurement

Components

CRY3261 1/2" Free-field Prepolarized Microphone CRY517 1/2" IEPE Preamplifier

Introduction

The CRY3261 - S02 is a 1/2 - inch free - field pre - polarized measuring microphone and pre - amplifier, specifically designed for noise measurements below 10 dB.

The CRY3261 - S02 has a background noise as low as 6.5 dB, making it an ideal choice for detecting and measuring ultra - low noise levels. Typical applications include measuring product self - noise, home appliance noise, transformer current noise, and evaluating environmental noise.

Highlights

Use of Ultra-low noise Free-field Microphones

The dynamic range of the low-noise microphone can be as low as 6.5 dB, enabling it to measure sound pressure levels close to the threshold of human hearing. It is an ideal choice for the detection of extremely low noise. Free-field microphone sets are specifically designed for measurements in environments that are free from reflections or echoes and are widely used in fields such as acoustic research, noise monitoring, and sound system testing.

Compatibility

The CRY3261 - S02 low - noise microphone set abandons the pre - amplifier that requires a traditional power supply module for power supply. Instead, it adopts the IEPE power - supply method and can be directly connected to data analysis instruments compatible with IEPE.

• TEDS Microphone Set

Supports TEDS, and TEDS programmed to the IEEE 1451.4 standard for SMART transducers, V 1.0 format.

Calibration

Each CRYSOUND microphone set 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 microphone capsules use 3rd generation titanium diaphragms and protection grids and synthetic sapphire insulators – resulting in the most rugged and reliable measurement microphones on the market. Titanium provides superior corrosion resistance, high temperature stability, impact resistance and strength-tomass than traditional nickel and stainless steel. All capsules are assembled in strict clean-room environments for maximum quality.

CRYSOUND microphones enjoy a ten-years warranty period. We will provide users with comprehensive aftersales support services.



Technical Specifications

Specifications		
Field Type	Free-field	
Sensitivity(±1.5 dB)	450 mV/Pa, -7 dB re 1V/Pa	
Frequency Response	10 Hz to 16kHz ±2dB 6 Hz to 20kHz ±3dB	
Polarization Voltage	0 V	
Dynamic Range Lower Limit	6.5 dB,Typical:6.0 dB	
Dynamic Range Upper Limit(re.20uPa)	100 dB(20Hz - 8kHz) 85 dB(8kHz - 20kHz)	
Power Supply (IEPE)	4mA -20mA, typical 4mA	
Operating Temperature	-20°C to +60°C (-4°F to +140°F)	
Temperature Stability	0.012 dB/°C (-10°C to +50°C) 0.008 dB/°F (+14°F to +122°F)	
Static Pressure Stability	-0.01 dB/kPa	
Operating Humidity Range	0 to 90%RH no condensation	
Humidity Stability	< 0.1 dB (0 to 90%RH no condensation)	
Pressure Equalization Vent	Rear vented	
IEC 61094-4 Type	WS2F	
Output Impedance	35 Ω	
Interface Type	BNC	

Frequency Response

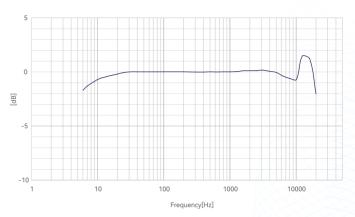


Fig.1 CRY3261-S02 Microphone Set Typical Frequency Response

Dimensions

Height with Grid	91.5 mm (3.6")
Diameter with Grid	13.2 mm (0.52")

Drawings(mm)[inch]

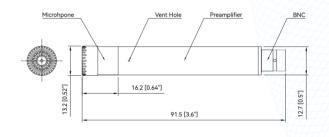


Fig.2 CRY3261-S02 Microphone Set Drawings

Ordering Information

Consisting of		
Measurement Microphone	CRY3261 1/2" Free-field Prepolarized Microphone	
Preamplifier	CRY517 IEPE Preamplifier	
Cable	BL5001 BNC to BNC Cable /1.6m	

Related Products

CRY3203-S01	1/2" free-field prepolarized microphone set, 50mV/Pa, 3.15Hz-20kHz, 15dB-138dB
CRY3401-S01	1/4" free-field prepolarized low-noise microphone set, 15.8 mV/Pa, 4 Hz-40 kHz, 26 dB-148dB
CRY3721-S01	IEC 60318 - 4 Ear simulator set for the measurement of Insert earphones, 9 dB - 110 dB