



CRY3408

1/4" Pressure-field Prepolarized High-level Microphone

Features

- **Key Specifications**

Sensitivity	0.14 mV/Pa
Dynamic Range	70 dB to 180 dB
Frequency Range	10 Hz to 20 kHz ± 2 dB

- **Applications**

High Sound Pressure Level (SPL) Measurement
Industrial Blasting Tests
Rocket Engine Testing

- **Standards**

IEC 61094 4:1995 Measurement microphones – Part 4

Introduction

The CRY3408 is a 1/4" pressure-field prepolarized measurement microphone, specifically designed for high sound pressure level (SPL) acoustic measurements.

The CRY3408 is capable of performing acoustic tests in extremely high SPL environments, withstanding up to 180 dB SPL. It is optimized for industrial blasting and rocket engine testing.

Highlights

- **Use of High-level Microphones**

The CRY3408 high-sound-pressure microphone is widely used in industrial blast monitoring, aerospace testing, military defense testing, and other fields.

- **Compatibility**

The CRY3408 measuring microphone is compatible with the IEPE preamplifier of CRY SOUND.

IEPE is a universal constant current source power supply technology used on sensors. Each manufacturer has different names, such as ICP, CCP, etc.

- **Calibration**

Each CRY SOUND microphone 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 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-to-mass than traditional nickel and stainless steel. All capsules are assembled in strict clean-room environments for maximum quality.

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

Technical Specifications

Specifications

Field Type	Pressure-field
Sensitivity(± 3 dB)	0.14 mV/Pa, -77 dB re 1V/Pa
Frequency Response	10 Hz to 20 kHz ± 2 dB
Polarization Voltage	0 V
Capacitance	7 pF (@250 Hz)
Dynamic Range(re.20uPa)	70 dB to 180 dB
Inherent noise	70 dBA
Operating Temperature	-30°C to +70°C(-22°F to +158°F)
Temperature Stability	-0.015 dB/°C (-10~+50°C)
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	Side vented
IEC 61094-4 Type	WS3P

Dimensions

Height with Grid	10.5 mm (0.413")
Diameter with Grid	7 mm (0.276")

Drawings(mm)[inch]

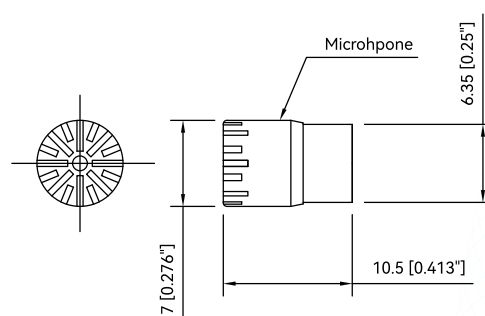


Fig.1 CRY3408 Microphone Drawings

Frequency Response

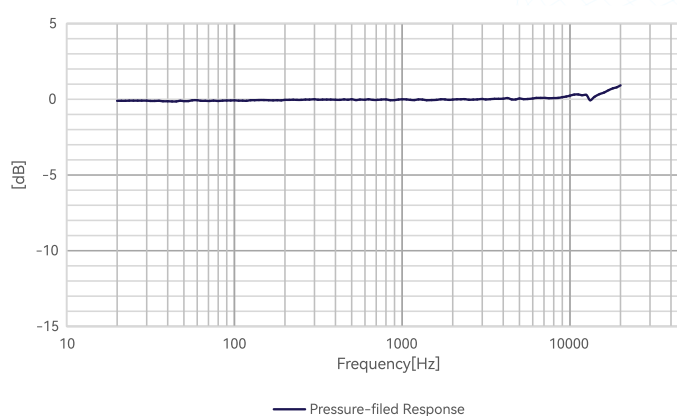


Fig.2 CRY3408 Microphone Typical Frequency Response

Ordering Information

Optional Accessories

Preamplifier	CRY3541 1/4" SMB Interface CRY3543 1/4" 10-32UNF
Microphone Holder	1/4" Microphone Holder
Sound Level Meter	CRY2851 Sound Level Meter
Power Supply	CRY575 Three-channel Microphone Power Supply
Electroacoustic Analyzer	CRY6151B Electroacoustic Analyzer

Related Products

CRY3404	1/4" pressure-field prepolarized high-level microphone, 0.56 mV/Pa, 10 Hz-20 kHz, 59dB-175 dB
CRY3402	1/4" pressure-field prepolarized High frequency microphone, 1.6 mV/Pa, 4 Hz-70kHz, 45dB-170 dB