CRY3482

1/4" Pressure-field Ext-Polarized High Frequency Microphone

Features

- **Key Specifications**

Sensitivity	1.6 mV/Pa
Dynamic Range	45 dBA to 170 dB
Frequency Range	4 Hz to 70 kHz ±2 dB

- **Applications**

  High-frequency (ultrasonic) measurements
  High-definition speakers, headphones, and earbud measurements
  High Sound Pressure Level (SPL) measurements

- **Standards**

  IEC 61094 4:1995 Measurement microphones - Part 4

Introduction

CRY3482 is a 1/4" pressure-field externally polarized measurement microphone designed for high-frequency and high-dynamic-range acoustic measurements.

The unique design of CRY3482 provides a flat frequency response, allowing for measurement frequencies up to 70 kHz. It is also capable of withstanding sound pressure levels of up to 170 dB. This makes it an excellent general-purpose measurement microphone for high-definition audio measurements and other ultrasonic acoustic applications.

Highlights

- **Use of High frequency Pressure-field Microphones**

  High frequency microphones can accurately capture high-frequency sounds and are highly suitable for ultrasonic detection, high-frequency acoustic research, and other similar applications.
  Pressure-field microphones are specifically designed for measurements in small enclosed cavities or near the sound source ports, and are widely used in fields such as acoustic research and electroacoustic testing.

- **Calibration**

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

  CRYSOUND 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)	1.6 mV/Pa, -56 dB re 1V/Pa
Frequency Response	4 Hz to 70 kHz ±2 dB
Polarization Voltage	200 V
Capacitance	7 pF (@250 Hz)
Dynamic Range(re.20uPa)	45 dBA to 170 dB
Operating Temperature	-30℃ to +80℃(-22℉ to +176℉)
Temperature Stability	0.01 dB/℃ (-10℃ to +50℃) 0.006 dB/℉ (+14℉ to +122℉)
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

Drawings(mm)[inch]

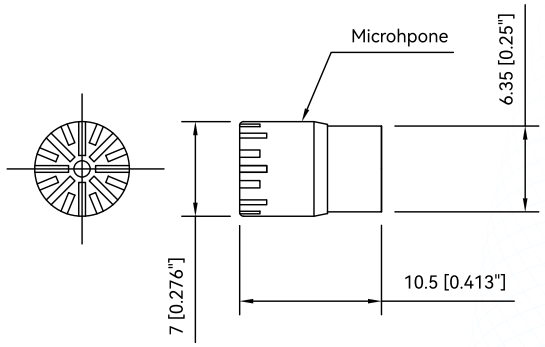

Fig.1 CRY3482 Microphone Set Drawings

Frequency Response

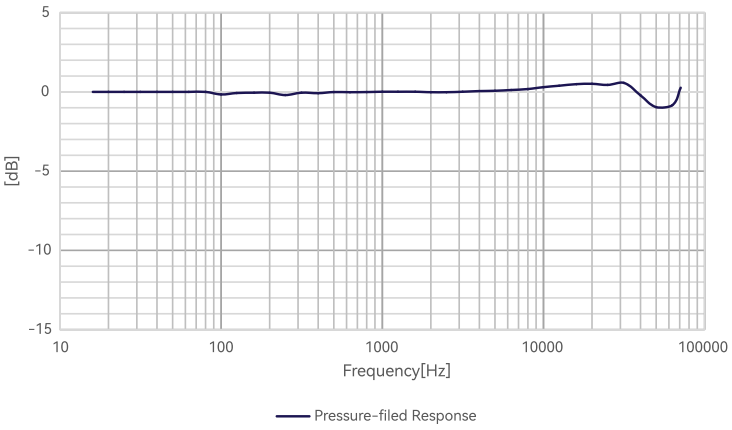

Fig.2 CRY3482 Microphone Typical Frequency Response

Dimensions

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

Ordering Information

Optional Accessories

Power Supply	CRY575 Three-channel Microphone Power Supply
Electroacoustic Analyzer	CRY6151B Electroacoustic Analyzer

Related Products

CRY3281	1/2" free-field ex-polarized high-frequency microphone, 12.5 mV/Pa, 3.15 Hz-40 kHz, 23 dBA-160 dB
CRY3284	1/2" pressure-field ex-polarized high-sensitivity microphone, 50 mV/Pa, 3.15 Hz-10 kHz, 16 dBA-146 dB
CRY3285	1/2" free-field ex-polarized high-sensitivity microphone, 50 mV/Pa, 3.15 Hz-20kHz, 16 dBA-146 dB
CRY3485	1/4" free-field ex-polarized high-frequency microphone, 4 mV/Pa, 4 Hz-90kHz, 35dBA-165dB