



CRY3719-S01

IEC 60318-5 Hearing Aids and In-ear Headphones Measurement 2cc Coupler Set

Features

- **Key Specifications**

Sensitivity	12.5 dB re 1V/Pa
Dynamic Range	23 dBA to 146 dB
Frequency Range	125 Hz to 8 kHz

- **Applications**

Hearing aids measurement
In-ear headphones measurement

- **Standards**

IEC 60318-5 Electroacoustics - Simulators of human head and ear - Part 5
ANSI S3.7
IEC 61094-4

- **Components**

CRY3719 2cc Coupler
CRY3202 1/2" Pressure-field Prepolarized Microphone
CRY3502 1/2" IEPE Preamplifier

Introduction

CRY3719-S01 is a 2cc coupler set specifically designed for acoustic testing of hearing aids and in-ear earphones.

The unique design of CRY3719-S01 features a resonant frequency of 22.4kHz, effectively avoiding interference with measurements within the audible frequency range. This enables stable and reliable high-quality acoustic testing.

Highlights

- **Use of Coupler Set Compliant with IEC 60318-5**

IEC 60318-5 describes an acoustic coupler for loading an earphone or hearing aid with a specified acoustic impedance when determining its physical performance characteristics, in the frequency range 125 Hz to 8 kHz. It is suitable for air conduction hearing aids and earphones, coupled to the ear by means of ear inserts e.g. ear moulds or similar devices.

- **Compatibility**

The CRY3719-S01 coupling cavity kit requires a constant current source power module (IEPE power supply) that can provide 4 mA current and 24V no-load voltage. 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 coupler set 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 coupler sets are primarily made of stainless steel, which offers high corrosion resistance, durability, and the ability to withstand high pressure and temperature.

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

Technical Specifications

Specifications

Sensitivity(± 1.5 dB)	12.5 mV/Pa, -38 dB re 1V/Pa
Resonance Frequency	22.4kHz $\pm$ 2.5kHz
Frequency Response	125 Hz to 8 kHz
Dynamic Range(re.20uPa)	23 dBA to 146 dB
Equivalent Volume	2 cc (2 cm ³)
Interface Type	SMB
Weight	66 g

Frequency Response

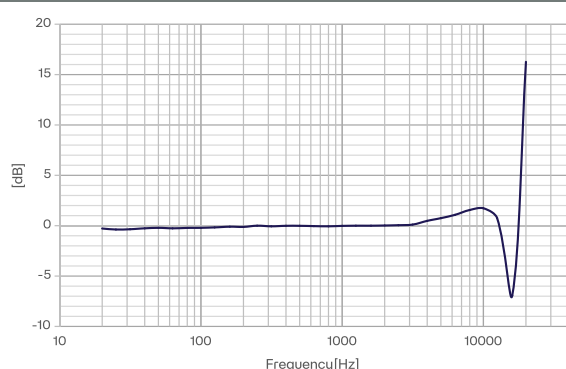


Fig.1 CRY3719-S01 Coupler Set Typical Frequency Response

Dimensions

Height	51.5mm (2.025")
Diameter	25.0mm (0.985")

Drawings(mm)[inch]

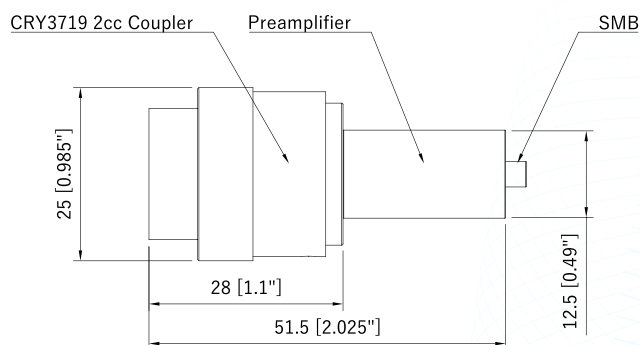


Fig.2 CRY3719-S01 Coupler Set Drawings

Diagram



Fig.3 CRY3719-S01 Coupler Set Optional Acoustic Chamber Configuration Diagram

Here are the three optional acoustic chamber configuration diagrams for the CRY3719-S01 Coupler Set. You can freely choose and combine the most suitable chamber configuration based on your specific testing needs. Please note that the provided diagrams are for reference purposes only and can be further customized according to your specific requirements and objectives.

Ordering Information

Consisting of

Coupler	CRY3719 2cc Coupler
Measurement Microphone	CRY3202 1/2" Pressure-field Prepolarized Microphone
Preamplifier	CRY3502 1/2" IEPE Preamplifier
Cable	SMB to BNC Cable /1.5m
Accessories	Coupler Chamber Accessories

Optional Accessories

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

Related Products

CRY3711-S01	IEC 60318-4 Insert earphones Measurement Occluded-ear simulator set
CRY3717-S01	IEC 60318-3 Supra-aural Audiometry Earphone Measurement 6cc Coupler Set
CRY3718-S01	IEC 60318-1 Supra-aural and Circumaural Earphone Measurement Ear Simulator Set
CRY3721-S01	IEC 60318-4 Ultra Low-noise, Full-frequency Ear Simulator Set