



CRY3717-S01

IEC 60318-3 Supra-aural Audiometry Earphone Measurement 6cc Coupler Set

Features

- **Key Specifications**

Sensitivity	50 mV/Pa
Dynamic Range	12 dBA to 134 dB
Frequency Range	100 Hz to 8 kHz ± 2 dB

- **Applications**

Supra-aural audiometric earphones measurement

- **Standards**

IEC 60318-3 Electroacoustics - Simulators of human head and ear - Part 3
GB/T 25498.3

- **Components**

CRY3717 6cc Coupler
CRY3102 1" Pressure-field Prepolarized Microphone
CRY508C 1" IEPE Preamplifier

Introduction

CRY3717-S01 is a 6cc coupler set specifically designed for acoustic testing of circumaural headphones.

The unique design of CRY3717-S01 allows for electroacoustic measurements of headphones and audiometers, enabling comparisons and reproducibility across different product designs.

Highlights

- **Use of Coupler Set Compliant with IEC 60318-3**

IEC 60318-3 specifies an acoustic coupler for the measurement of supra-aural audiometric earphones in the frequency range from 125 Hz to 8,000 Hz. The acoustic coupler can be used as an objective and reproducible means for measuring the output of supra-aural earphones. It can also be used for specifying reference equivalent threshold sound pressure levels to facilitate the calibration of audiometers.

- **Compatibility**

The CRY3717-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)	50 mV/Pa, -26 dB re 1V/Pa
Resonance Frequency	13.2 kHz ± 1.5 kHz
Frequency Response	100 Hz to 8 kHz ± 2 dB
Dynamic Range(re.20uPa)	12 dBA to 134 dB
Equivalent Volume	6 cc (6 cm ³)
Interface Type	BNC
Weight	693 g

Frequency Response

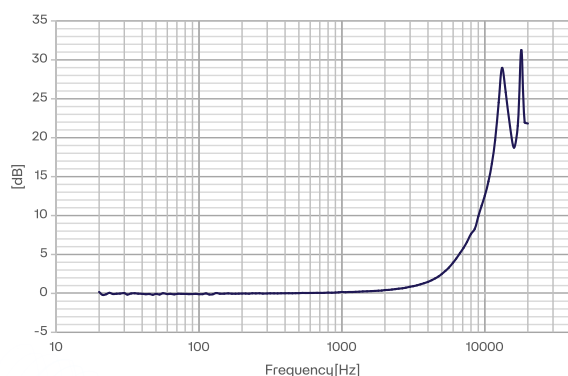


Fig.1 CRY3717-S01 Coupler Set Typical Frequency Response

Dimensions

Height	52mm (2.047")
Diameter	61mm (2.402")

Drawings(mm)[inch]

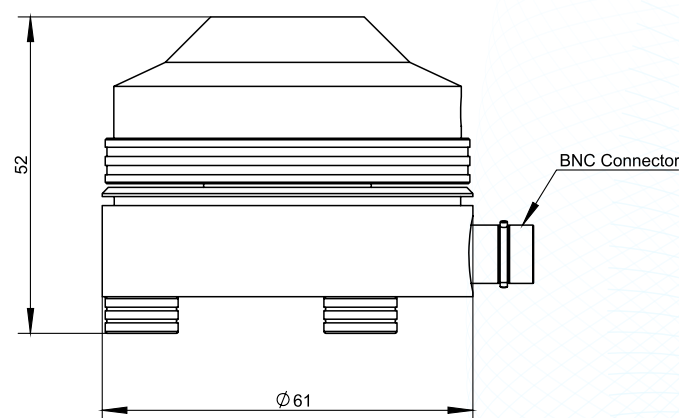


Fig.2 CRY3717-S01 Coupler Set Drawings

Ordering Information

Consisting of

Coupler	CRY3717 6cc Coupler
Measurement Microphone	CRY3102 1" Pressure-field Prepolarized Microphone
Preamplifier	CRY508C 1" IEPE Preamplifier
Cable	BL5001 BNC to BNC Cable /1.6m
Accessories	Coupler Chamber Accessories

Optional Accessories

Electroacoustic Analyzer	CRY6151B Electroacoustic Analyzer
Power Supply	CRY575 Three-channel Microphone Power Supply
Cable	BL5001 BNC to BNC Cable /1.0m BL5001 BNC to BNC Cable /3.2m BL5001 BNC to BNC Cable /5.0m

Related Products

CRY3711-S01	IEC 60318-4 Insert earphones Measurement Occluded-ear simulator set
CRY3718-S01	IEC 60318-1 Supra-aural and Circumaural Earphone Measurement Ear Simulator Set
CRY3719-S01	IEC 60318-5 Hearing Aids and in-ear headphones Measurement 2cc Coupler Set
CRY3721-S01	IEC 60318-4, Ultra Low-noise, Full-frequency Ear Simulator Set