



CRY3718-S01

IEC 60318-1 Supra-aural and Circumaural Earphone Measurement Ear Simulator Set

Features

- **Key Specifications**

Sensitivity	12.5 mV/Pa
Dynamic Range	23 dBA to 146 dB
Frequency Range	100 Hz to 4 kHz ± 1 dB

- **Applications**

Supra-aural earphones measurements
Circumaural earphone measurements

- **Standards**

IEC 60318-1 Electroacoustics - Simulators of human head and ear - Part 1
ITU-T P.57 Type 1

- **Components**

CRY3718 Ear Simulator
CRY3202 1/2" Pressure-field Prepolarized Microphone
CRY3521 1/2" IEPE Preamplifier

Introduction

CRY3718-S01 is a simulation ear set specifically designed for measurements in audiology and related fields.

The unique design of CRY3718-S01 enables it to carry out electroacoustic measurements of supra-aural audiometric earphones or circumaural earphones in a clear acoustic environment. It is widely utilized in research and development within the fields of headphones, hearing assistance devices, and other related areas.

Highlights

- **Use of Ear Simulator Set Compliant with IEC 60318-1**

IEC 60318-1 specifies an ear simulator for measuring supra-aural and circumaural headphones without acoustic leakage in the frequency range from 20 Hz to 10 kHz.

- **Compatibility**

The CRY3718-S01 ear simulator set 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 ear simulator 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 ear simulator sets are primarily made of stainless steel, which offers high corrosion resistance, durability, and the ability to withstand high pressure and temperature.

CRY SOUND ear simulator 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
Frequency Response	100 Hz to 4 kHz ± 1 dB (simulate human ear impedance) 20 Hz to 16 kHz (coupling cavity use)
Dynamic Range(re.20 μ Pa)	23 dBA to 146 dB
Interface Type	BNC
Weight	441 g

Frequency Response

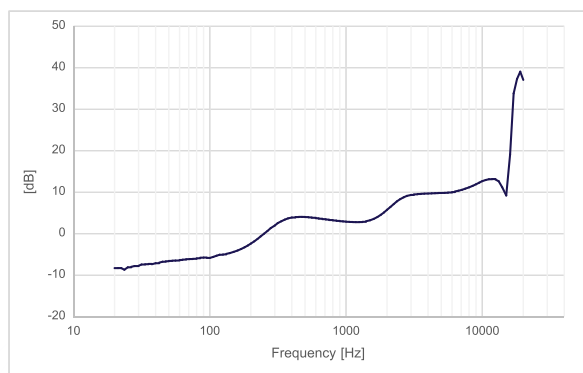


Fig.1 CRY3718-S01 Ear Simulator Set Typical Frequency Response

Dimensions

Height	41mm (including connection adapter)
Diameter	25.0mm (including connection adapter)

Drawings(mm)[inch]

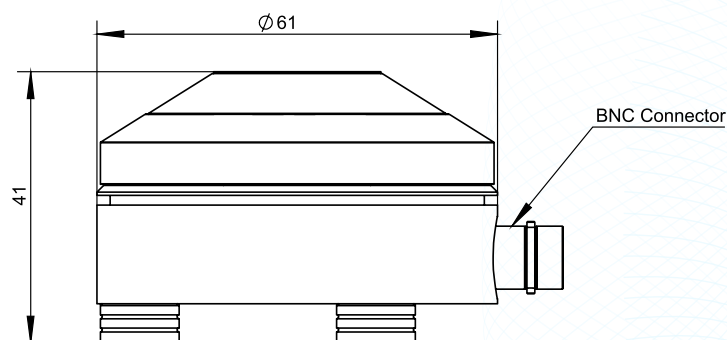


Fig.2 CRY3718-S01 Ear Simulator Set Drawings

Ordering Information

Consisting of

Ear Simulator	CRY3718 Ear Simulator
Measurement Microphone	CRY3202 1/2" Pressure-field Prepolarized Microphone
Preamplifier	CRY3521 1/2" 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
CRY3717-S01	IEC 60318-3 Supra-aural Audiometry Earphone Measurement 2cc Coupler 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