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 dB 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

The CRY3718-S01 utilizes the base-type preamplifier CRY3521 and CRY3202 pressure-field microphone. Its integrated preamplifier design makes it widely suitable for production line testing of circumaural headphone speakers.
The CRY3718-S01 features a BNC interface and supports IEPE power supply, ensuring convenient operation.

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 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 CRYSOUND ear simulator set 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 ear simulator sets are primarily made of stainless steel, which offers high corrosion resistance, durability, and the ability to withstand high pressure and temper-ature.

  CRYSOUND ear simulator sets enjoy a one-year warranty period. We will provide users with comprehensive after-sales support services.

Technical Specifications

Specifications

Sensitivity(±2 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.20uPa)	23 dB to 146 dB
Interface Type	BNC
Weight	441 g

Frequency Response

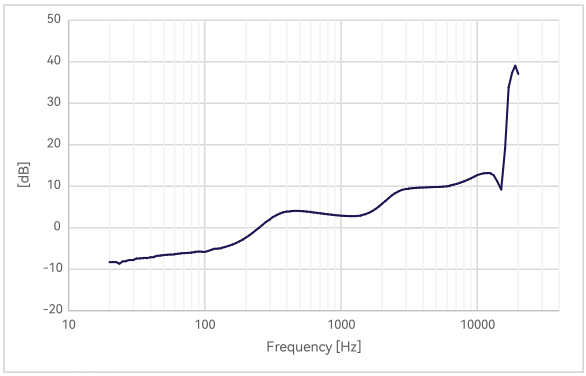

Fig.1 CRY3718-S01 Ear Simulator Set Typical Frequency Response

Dimensions

Height	41mm (including connection adapter)
Diameter	61.0mm (including connection adapter)

Drawings(mm)[inch]

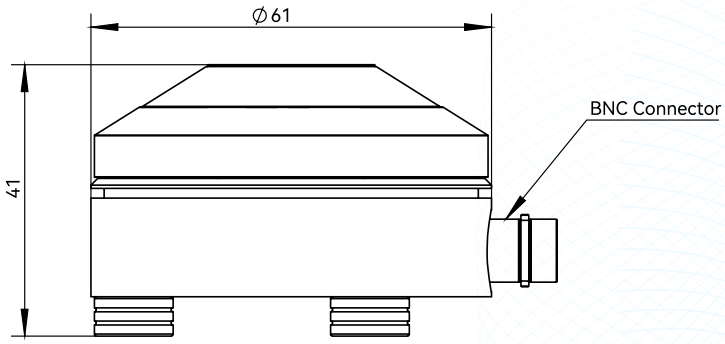

Fig.2 CRY3718-S01 Ear Simulator Set Drawings

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

CRY711-S01	IEC 60318-4 Insert earphones Measurement Occluded-ear simulator set
CRY317-S02	IEC 60318-3 Supra-aural Audiometry Earphone Measurement 2cc Coupler Set
CRY319-S01	IEC 60318-5 Hearing Aids and in-ear headphones Measurement 2cc Coupler Set
CRY717-S01	IEC 60318-4, Ultra Low-noise, Wide-frequencg Ear Simulator Set