CRY3718-S05

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
  TA0701 Adapter

Introduction

The CRY3718-S05, compared to the CRY3718-S01, includes a circumaural headphone adapter (TA0701) compliant with IEC 60318-1 standards, making it suitable for R&D and production line testing of audiometer headphones and circumaural headphones.
The CRY3718-S05 features a BNC interface and supports IEPE power supply mode for 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-S05 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

Dimensions

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

Frequency Response

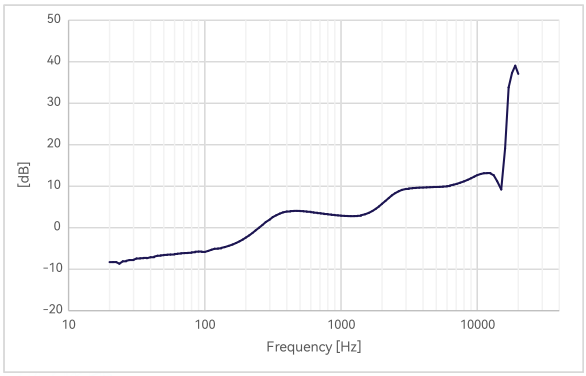

Fig.1 CRY3718-S05 Ear Simulator Set Typical Frequency Response

Drawings(mm)[inch]

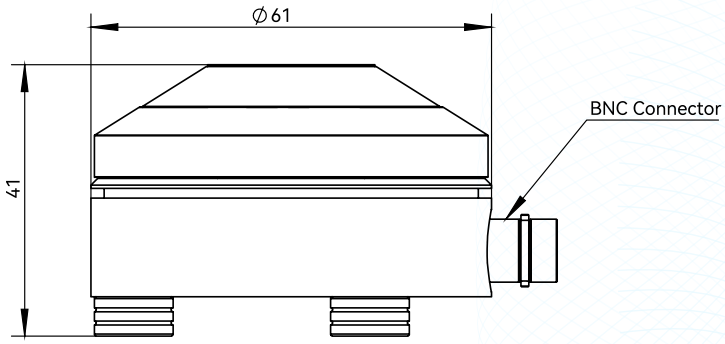

Fig.2 CRY3718-S05 Ear Simulator Set Drawings

Ordering Information

Consisting of

Ear Simulator	CRY3718 Ear Simulator
Measurement Microphone	CRY3202 1/2" Pressure-field Prepolarized Microphone
Preamplifier	CRY3521 1/2" IEPE Preamplifier
Adapter	TA0701 IEC 60318-1Recommend
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