

## CRY886-S01 High-Frequency Coupler Kit

### Components & Description :

- ◆ CRY886 0.4cc High-Frequency Coupler
- ◆ CRY342 1/4" Pre-polarized Pressure Field
- ◆ Measurement Microphone
- ◆ CRY547 1/4" ICP Preamplifier
- ◆ BL5706SMB to BNC Cable / 1.5m



### Introduction

CRY886-S01 is a high-frequency Coupler kit which consisting of the above accessories for test hearing aids at frequencies up to 16kHz. The coupler increases the resonance frequency to 30kHz, so that it will not interfere with measurements in the audible frequency range. The coupler volume is 0.4cc, CRY886-S01 has a sensitivity of 1.5mV/Pa and the noise floor 40dB(A). CRY342 measurement microphone is a pre-polarized 1/4 inch pressure field condenser microphone. It mainly used for high-level and high-frequency measurements since the sensitivity is low. It can measure high sound pressure levels to 168dB. The Titanium membrane can achieve high stability and accuracy in harsh environment.

CRY547 preamplifier can combine with 1/4 inch measurement microphone to transform the impedance and amplifier the acoustic signal. This preamplifier has the characteristic of high input impedance, low output impedance, lower noise, wide frequency response range, etc. It can be used for the condition of electroacoustic test system or multi-noise analysis.

And finally, CRY886-S01 Coupler kit is designed for accurate and repeatable use, and also suitable for research, measurement and production test applications.

### Standard

- ✓ Meet IEC TS 62886:2016 Electroacoustic – Hearing aids – Method for measuring electroacoustic performance up to 16kHz
- ✓ Meet IEC 61094-4:1995 Measurement microphones—Part 4: Specifications for working
- ✓ standard microphones

✓ Meet GBT 20441.4-2006 Measurement microphones—Part 4: Specifications for working standard microphones

Parameter

Coupler Volume	0.4cc
Resonance Frequency	30kHz
Frequency Response	100Hz to 16kHz
Sensitivity mV/Pa (dBV/Pa)	1.5mV/Pa±2dB (-56.5dB re 1V/Pa)
Polarization Voltage V	0V
Linearity Range (ref.20uPa)	40 - 164dB (250Hz sensitivity changes 0.2dB/10dB)
Dynamic range limit (ref.20uPa)	≥164dB (250Hz THD<3%)
Equivalent noise (ref.20uPa)	≤40dB(A) (250Hz)
Preamplifier Supply	ICP 2-4mA
Preamplifier Connection	SMB coaxial plug / BNC
Working Temperature	-10℃ to +50℃
Temperature Coefficient	+0.01dB /℃ (-10℃ to +50℃)
Relative Humidity Range	10 - 90% no condensation

CRY886-S01 high-frequency coupler kit typical response curve

Typical Frequency Response

