

CRY333-CRY507 ½-INCH FREE-FIELD MICROPHONE, CCLD MICROPHONE PREAMPLIFIER KIT

Components & Description:

- ◆ CRY333 pre-polarized 1/2 inch free field condenser microphone
- ◆ CRY507 CCLD Preamplifier



Introduction

CRY333 measurement microphone is a pre-polarized 1/2 inch free field condenser microphone. It's mainly used for measuring the real sound pressure of the microphone's diaphragm. It can be compatible with CRY500 series preamplifier, and it also can be compatible with other brands like B&K, G.R.A.S, etc. It is applicable to the acoustic tester, multi-channel noise analyzer and other instruments.

CRY507 preamplifier can combine with 1/2 inch measurement microphone to transform the impedance and amplifier the acoustic signal. It also compatible with other 1/2 inch measurement microphone like B&K, G.R.A.S. BNC connector for easy installation and use with inexpensive BNC cable. 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.

Standard

- ✓ CRY333 Meet IEC 61094-4:1995 Measurement microphones-Part 4: Specifications for working standard microphones
- ✓ CRY333 Meet GB/T 20441.4-2006 Measurement microphones-Part 4: Specifications for working standard microphones

CRY333 Parameter

CRY333 Measurement Microphone	
Field Type	Free Field
Sensitive mV/Pa (dBV/Pa)	50mV(-26dB) ± 2dB
Frequency Response (dB)	3.15Hz-20kHz ± 2dB
	12.5Hz-10kHz ± 1dB
Polarity Voltage (V)	0V
Linearity Range (ref. 20uPa)	15-146dB (@250Hz sensitivity changes 0.2dB/10dB)
Dynamic Range (ref. 20uPa)	≥ 146dB (THD < 3%)
Equivalent Noise (ref. 20uPa)	≤ 15dBA
Working Temperature	-30°C to +80°C
Temperature Coefficient	-0.012dB/°C (-10°C to +50°C)
Static Pressure Coefficient	-0.01dB/kPa
Relative Humidity Range	0- 90% without condensation
Relative Humidity Coefficient	< 0.1dB (0-90% without condensation)
Long Period Stability	< 0.03dB/a (20°C dry air)
Short Period Stability	< 0.03dB (20°C dry air)
IEC 61094-4 Name	WS2F

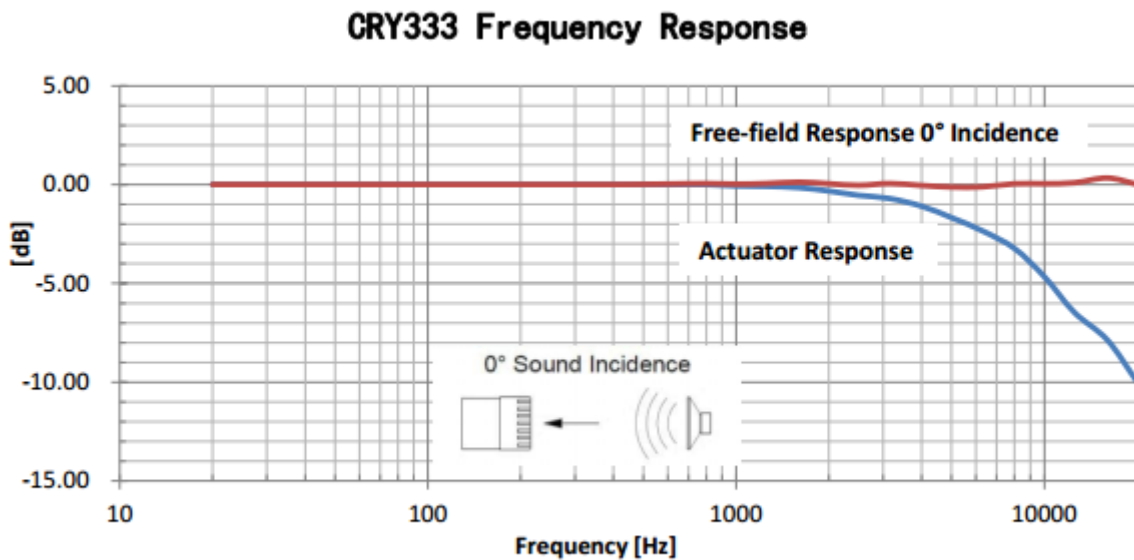


Fig1 Typical Response

CRY507 Parameter

CRY507 Preamplifier	
Frequency Response (dB)	20Hz-50kHz \pm 0.2dB
	10Hz-100kHz \pm 0.2dB
Input Impedance	> 10G Ω /0.5pF
Output Impedance	< 20 Ω
	< 0.1%
Max. Output Voltage	> 5.0Vrms (power supply for +24V)
Power Supply	ICP (2mA-10mA)
Nominal Operating Current	4mA
Noise (A-weighting)	< 3 μ Vrms
Linearity (20-20kHz)	< 10 μ Vrms
Gain	-0.3dB
Connector	BNC
Working Temperature	-30 $^{\circ}$ C to +70 $^{\circ}$ C
Thread Fitting Port	11.7mm \times 60UNS (M11.7 \times 0.423mm)
Diameter	12.7mm (1/2inch)
Length	38mm

CRY507 Dimension

