

CRY331 Measurement Microphone

CRY331 measurement microphone is a pre-polarized 1/2 inch free field condenser microphone. It 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.



Features

- ✓ 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

Technique Specification

Specification

Type CRY331 Measurement Microphone	
Field Type	Free field type II
Sensitivity mV/Pa (dBV/Pa)	40mV(-28dB).....±2dB
Frequency Response(dB)	3.15Hz-16kHz.....±2dB
	12.5Hz-10kHz.....±1dB
Polarity Voltage(V)	0V
Linearity Range (ref. 20uPa)	25-135dB (250Hz sensitivity changes 0.2dB/10dB)
Dynamic range limit (ref. 20uPa)	≥148dB (250Hz THD<3%)
Equivalent noise (ref. 20uPa)	≤20dB (250Hz)
Working Temperature	-20℃ to 60℃
Temperature Coefficient	-0.02dB /℃ (-10℃ to 50℃)
Static Pressure Coefficient	±0.03dB /kPa
Relative Humidity Range	10- 90% no condensation
Relative Humidity Coefficient	<0.1dB (10- 90% no condensation)
Long Period Stability	<0.03dB/a (15℃ to 25℃ at 250Hz)
Short Period Stability	<0.03dB (15℃ to 25℃ at 250Hz)
IEC 61094-4 Name	WS2F

Mechanical Size

Height (with boot cap)	16.2mm
Diameter (with boot cap)	13.2mm
Height (without boot cap)	15mm
Diameter (without boot cap)	12.7mm
Diaphragm Ring	12.1mm
Preamplifier suit screw thread	11.7mm-60UNS
Boot cap screw thread	12.7mm-60UNS

CRY331 Free field measurement microphone typical response curve

