

CRY371 Measurement Microphone

CRY371 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. The microphone will affect the sound field and the high frequency sound field where the microphone is placed. Aiming at this problem, we change the frequency response of the microphone for adjusting to compensate the error caused by the high frequency sound pressure in the sound field.



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

CRY371 Measurement Microphone	
Field Type	Free-field
Sensitivity mV/Pa (dBV/Pa)	12.5mV(-38dB) ±2dB
Frequency Response(dB)	3.15Hz-40kHz ±2dB 12.5Hz-20kHz ±1dB
Polarity Voltage(V)	0V (pre-polarized)
Typical Capacitance	13pF (@250Hz)
Linearity Range (ref. 20uPa)	25-145dB (@250Hz sensitivity changes 0.2dB/10dB)
Dynamic range limit (ref. 20uPa)	≥160dB (@250Hz THD<3%)
Equivalent noise (ref. 20uPa)	≤20dB (@250Hz)
Working Temperature	-20℃ to +60℃
Temperature Coefficient	0.02dB/℃ (-10℃ to +50℃ @250Hz)
Static Pressure Coefficient	0.01dB/kPa
Relative Humidity Range	10- 90% no condensation
Relative Humidity Coefficient	<0.1dB (10- 90% no condensation)

Long Period Stability	<0.03dB/a (15℃to25℃ @250Hz)
Short Period Stability	<0.03dB (15℃to25℃ @250Hz)
Pressure Balanced Hole	Rear Pressure

Mechanical Size

Height (with boot cap)	12.6mm
Diameter (with boot cap)	13.2mm
Height (without boot cap)	11.5mm
Diameter (without boot cap)	12.7mm
Diaphragm Ring	12.1mm
Preamplifier suit screw thread	11.7mm-60UNS
Boot cap screw thread	12.7mm-60UNS

CRY371 Pressure field measurement microphone typical response curve

