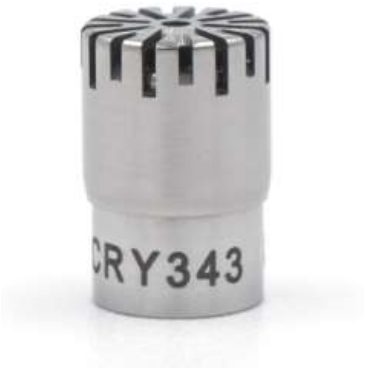
CRY343 Measurement Microphone

CRY343 measurement microphone is a pre-polarized 1/4-inch free-field condenser microphone. It is a kind of sensors that converts acoustic signals into electrical signals. The microphones are made of high-quality materials and Titanium membrane, this will ensure its perfect corrosion resistance and keep robustness from other kinds of environmental interference. Laser welding process provides a life-long stability in different temperature and humidity.



Its sensitivity is 4mV(-48dB) ±3dB @250Hz and the frequency response is 4Hz – 90kHz ±2dB.

Feature

- ✓ 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

CRY343 Measurement Microphone	
Field Type	1/4” Free-field
Sensitivity mV/Pa (dBV/Pa)	4mV(-48dB) ±3dB
Frequency Response(dB)	4Hz - 90kHz ±2dB
Polarity Voltage (V)	0V (Pre-polarized)
Typical Capacitance (pF)	7pF(@250Hz)
Linearity Range (ref. 20uPa）	30-165dB (@250Hz sensitivity changes 0.2dB/10dB)
Dynamic Range Limit (ref. 20uPa)	≥165dB (@250Hz THD<3%)

Inherent Noise (ref. 20uPa)	≤30dBA (@250Hz)
Working Temperature	-30℃ to +80℃
Temperature Coefficient	+0.01dB /℃ (-10℃ to +50℃ @250Hz)
Static Pressure Coefficient	-0.01dB /kPa
Relative Humidity Range	0- 90% no condensation
Relative Humidity Coefficient	<0.1dB（0- 90% no condensation）
Long Period Stability	<0.03dB/a (20℃ @250Hz)
Short Period Stability	<0.03dB (20℃ @250Hz)
Microphone Venting	Side pressure
Pressure Balanced Time Coefficient	>0.05s
IEC 61094-4 Compliance	WS3F

Mechanical Size

Height (with boot cap)	10.5mm
Diameter (with boot cap)	7mm
Height (without boot cap)	9mm
Diameter (without boot cap)	6.35mm
Diaphragm Ring	5.8mm
Preamplifier suit screw thread	5.7mm-60UNS
Boot cap screw thread	6.35mm-60UNS

CRY343 Pressure field measurement microphone typical response curve