

噪声传感器

Noise Sensor

CZ-038系列

本系列传感器采用驻极体作为敏感元件，用于测量环境噪声。它为机电一体化产品，供电电源（+12V）通过外接1KΩ电阻对产品供电就可以进行测量。

性能指标

声压灵敏度 (S) $11 \pm 1.6 \sim 290 \pm 20 \text{mv}/124 \text{dB}$

动态范围幅值线性度 (R) $85 \sim 170 \text{dB} \leq 2\%$

声压频响：50~1000Hz 内不平度 $\leq \pm 1 \text{dB}$

50~8000Hz 内不平度 $\leq \pm 3 \text{dB}$

灵敏度温度误差：(-40~+50°C) $\leq \pm 2.5 \text{dB}$

输出偏压：电源电压为 $+12 \pm 0.5$ 时，输出直流偏压

为 $+4 \sim 7 \text{V}$

Electret is the sensing element to measure environmental noise. It is electromechanical integration products with (+12 v) power supply and an external 1k Ω resistance.

Performance Index

Sound pressure sensitivity (S) $11 + / - 1.6 \sim 290 + 20 \text{ mv} / 124 \text{ db}$

Dynamic range of amplitude linearity (R) $85 \sim 170 \text{dB} \leq 2\%$

frequency response: 50~1000Hz irregularity in Passband $\leq \pm 1 \text{dB}$, 50~8000Hz irregularity in Passband $\leq \pm 3 \text{dB}$

Sensitivity-temperature-error: (-40~+50°C) $\leq \pm 2.5 \text{dB}$

output bias: DC bias is $+4 \sim 7 \text{V}$ at $+12 \pm 0.5$

