

产 品 规 格 书

Production Specification

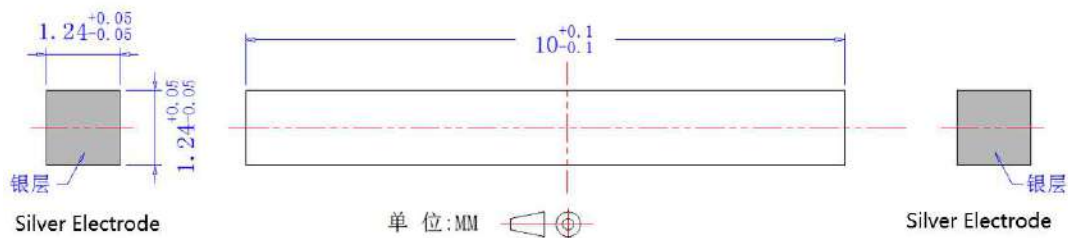
1. 适用范围(Scope of application)

本规格书适用于压电传感片 JYKCD1.24x10-200K 的技术要求, 本规格书可作为上述产品交收试验的依据。

This specification applies to the technical requirements of the piezoelectric sensor piece JYKCD1.24X 10-200K. This specification can be used as the inspection basis for the delivery and receipt of the above products.

2. 外观要求(Appearance and Dimensions)

1)外观尺寸(Dimensions) (Unit: mm)



2)外观标准(Appearance Standard and Requirements)

- 电极无明显露瓷和磨损-
- There is no obvious exposed ceramic or wear on the electrodes
- 无缺瓷、崩边、裂纹等损伤
- No damage such as missing ceramic, chipping, cracks, etc.

3. 技术指标(Electronic Performance)

型 号	Part Number	JYKCD1.24x10-200K
压电常数	Piezoelectric Constant	$d_{33} \geq 600 \text{ pC/N}$
介电损耗	Dielectric Loss	$\text{Tan}\delta \leq 2.5\%$
静态电容	Static Capacitance	$C_0 = 5.5\text{nF} \pm 15\%$ at 1kHz
谐振频率	Resonance Frequency (Ft)	$160 \pm 15\text{Khz}$
反谐振频率	Resonance Frequency (Fa)	$190 \pm 20\text{Khz}$
谐振阻抗	Resonance Impedance	$R \leq 80\text{K } \Omega$
工作温度	Operating Temperature Range	$-20^\circ\text{C} \sim +70^\circ\text{C}$
贮存温度	Storage Temperature Range	$-30^\circ\text{C} \sim +80^\circ\text{C}$

4. 检验规则(Inspection rules)

检验分为鉴定检验和质量一致性检验，参照 GB/T15 156-2015 《压电陶瓷换能元件总规范》的有关要求执行。

The inspection is divided into Identification inspection and Quality consistency inspection, and is performed with reference to the relevant requirements of GB/T15 156-2015 "General Specification for Piezoelectric Ceramic Transducer Elements".

样品测试报告

Sample Test Report

客 户	Customer	
型 号	Part Number:	JYKCD1.24x10-200K
样品数量	Sample Quantity	250pcs
测试数量	Test Quantity	10pcs
技术指标	Specification	$d_{33} \geq 600 \text{pC/N}$ $\tan \delta \leq 2.5\%$ $C_0 = 5.5 \text{nF} \pm 15\%$ at 1kHz。

测试数据 Test Date

序号	C_t (nF)	Tan δ (%)	d_{33} (pC/N)	Fr (KHz)	Fa (KHz)	R (K Ω)	L (mm)	W (mm)	H (mm)
1	5.45	1.1	631	172.7	198.4	38	1.26	1.26	10.06
2	5.77	1.5	630	151.5	182.8	14	1.26	1.26	10.05
3	5.51	1.2	643	150.0	184.3	25	1.26	1.26	10.06
4	5.99	1.4	680	168.7	195.8	52	1.26	1.26	10.06
5	6.16	1.9	648	162.6	191.3	24	1.26	1.26	10.07
6	5.57	2.5	640	161.1	188.8	30	1.26	1.26	10.05
7	5.52	2.5	628	163.6	189.8	23	1.26	1.26	10.08
8	5.45	2.5	633	160.6	191.8	53	1.26	1.26	10.08
9	5.71	1.9	646	168.7	195.4	32	1.26	1.25	10.06
10	5.48	1.7	639	156.1	184.8	14	1.26	1.26	10.06

检验人员 Inspector	Zhongweile
确 认 Confirmed	Lifeng
报告编号 Report Number	TR-1020-03
测试日期 Test Date	2023/10/20