

Ultrasonic Transducer Specification

超声波压电换能片规格书

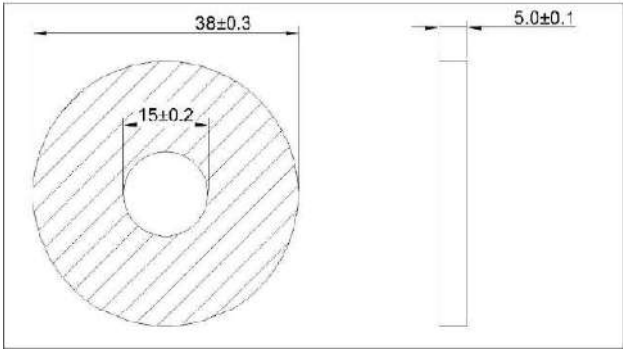
1. 产品型号 (Product Model): JYBC-P4-38-15-5
2. 外形尺寸 (Appearance Size): Φ38XΦ15-5mm
3. 材 质 (Ceramic Material): PZT44
4. 电性能参数 (Electrical specification):

序号 No.	项 目 Items	单 位 Unit	数 值 Standard
1	谐振频率 Resonant frequency(fs)	KHz	42±5%
2	谐振阻抗 Resonant impedance(Ro)	Ω	≤50
3	介电损耗 dielectric loss(tanδ)	%	≤0.4
4	静态容量 Capacitance(Cp)	pF	2400±15%
5	机电耦合系数 (kp) Electromechanical Coupling coefficient	%	≥45
6	机械品质因数 (Qm) Mechanical quality factor	--	800
7	压电应变常数 (d33) Piezoelectric strain constant	×10 ⁻¹² C/N	>320
8	居里温度 Curie temperature(Tc)	°C	>300
9	密度 Density(p)	kg/m ³	>7650

Note 1: Measured by Hp-4194A at 25℃ 80%R.H

Note 2: Measured by LCR meter at 1KHz,10Vrms

5. 外观要求 Appearance Requirements
- 5.1 外形尺寸 Dimension ,Unit(mm)



5.2 外观要求（Appearance Requirements）

- ① 电极面上无明显显露、磨损和划伤
There is no obvious ceramic revealed, abrasion or scratches on the electrode surface.
- ② 无缺瓷、崩边和裂纹等损伤
The ceramic disc looks complete without crack