Ultrasonic Transducer Specification
超声波压电换能片规格书

1．产品型号（Product Model）： JYBC-P44-25-10-5

2．外形尺寸（Appearance Size）： Φ25XΦ10-5mm

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	径向谐振频率 Radial Resonant frequency	KHz	65±1
2	厚向谐振频率 Thickness Resonant frequency)	KHz	410±5
3	谐振阻抗 Resonant impedance(Ro)	Ω	≤50
4	介电损耗 dielectric loss(tanδ)	%	≤0.4
5	静态容量 Capacitance(Cp)	pF	1320±15%
6	机电耦合系数 (kp) Electromechanical Coupling coefficient	%	65
7	机械品质因数 (Qm) Mechanical quality factor	--	800
8	压电应变常数 (d33) Piezoelectric strain constant	$\times 10^{-12}$C/N	340
9	居里温度 Curie temperature(Tc)	℃	330
10	产品重量 Single Weight	g	16

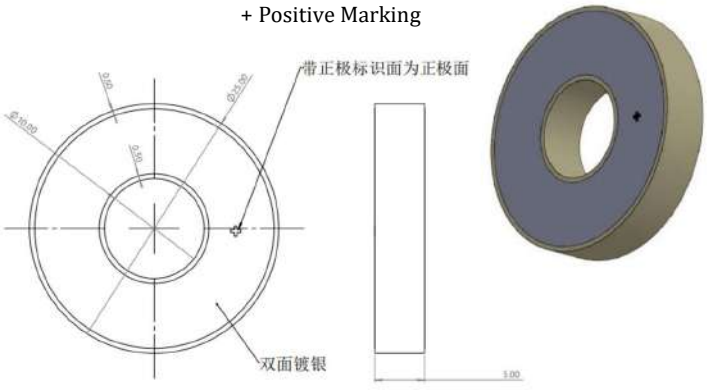
Note 1: All data are measured at 25℃ in Room Temperature

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)

外径 OD	25mm ±0.1mm
内径 ID	10mm ±0.1mm
厚度 T	5mm ±0.01mm



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

6．存储环境及注意事项 Storage Environment and Precautions

温度低于 50℃；湿度低于 40%Rh；避免碰撞和挤压；建议在真空袋中长期保存；安装和转运过程中保持放电状态，做好静电防护；

Temperature below 50℃; humidity below 40%Rh; avoid collisions and squeezing;

Long-term storage in a vacuum bag is recommended; maintain a discharged state during installation and transportation, and take precautions against static electricity.