

Ultrasonic Transducer Specification

超声波压电换能片规格书

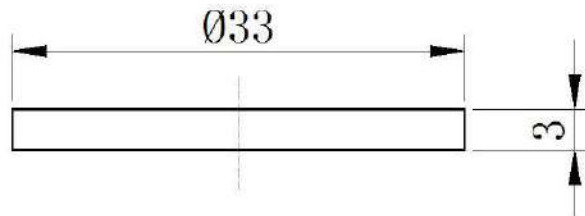
1. 产品型号 (Product Model): JYYP8-33X3
2. 外形尺寸 (Appearance Size): $\Phi 33 \times 3$ mm
3. 材 质 (Ceramic Material): YHP8
4. 电性能参数 (Electrical specification):

序号 No.	项目 Item	标准值 Standard Value	
1	径向谐振频率(Fs)	Radial resonant frequency(Khz)	69.5 ± 3
2	径向谐振阻抗 (Zmin)	Radial resonant impedance(Ω)	≤ 20
3	静态电容 CT	Static Capacitance (pF)	$2600 \pm 15\%$
4	压电常数 d33	Piezoelectric charge Constant(pc/N)	$240 \pm 15\%$
5	介电损耗 tgv (%)	Dielectric Loss tgv (%)	≤ 0.3
6	机械品质因素(Qm)	Mechanical quality factors	1000
7	机电耦合系数 (kp)	Electromechanical Coupling factor (Kp)	≥ 0.50
8	压电片外径 D1 (mm)	Piezoelectric External Diameter D1(mm)	33 ± 0.10
9	压电片厚度 T (mm)	Piezoelectric Disc Thickness T(mm)	3.0 ± 0.05

极化十天后测试 (The product is tested aging in 10days.)

5. 尺寸和外观 (Dimension and Appearance) , Unit(mm)

1) 外观尺寸(Dimensions)



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. 检验规则(Inspection regulation)

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

There are two kinds of Inspections, one is appraisal and one is inspection of quality conformity, referred to the relevant requirements of Piezoelectric Ultrasonic Transducers General Specifications.

7. 包装 (Package)

产品用定制减震材料板包装, 密封固定后装入包装箱, 箱内空隙处应用气泡膜填充, 箱内应有测试报告单、合格证明等文件。

The products are packed with the vibration-absorptive materials, sealed and packed into the outside carton. The space in the carton is filled with the Bubble film. There are testing report and the certificate and other files in the carton.

8. 质量条款 (Quality Terms)

① 每批产品交付时应有承制单位签发的合格证和性能测试报告。

The products for each lot have the testing report and the certificate issued.

② 产品的技术状态确定后, 若有更改须通知我们。

The product electronic performance is confirmed, so any change should inform us

③ 验收按照本单位编制的技术条件执行。

Acceptance clause should be referred to the spec we compiled

拟定(Drawing):

审核(Audit):

批准(Approval):

Oct.27, 20