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

1．产品型号 (Product Model)：JYYT1.01B12AD0G8-T0
2．外形尺寸（Appearance Size）：Φ12X2.06mm（Refer Fr:1.01Mhz）
3．材　　质（Ceramic Material）：P5A
4．Electronic performance

No.	Item	Specifications
1	静态电容 Electrostatic capacitance	1000±25%pF
2	介电损耗 Dielectric loss tanδ	≤2%
3	厚向谐振频率 Thick Resonant Frequency（Ft）	1.01±0.01Mhz
4	厚向谐振阻抗 Thick Resonant Impedance（Zr）	≤50Ω
5	厚向反谐振频率 Thick Anti-Resonant Frequency	1.09±0.02Mhz
6	径向谐振频率 Radial Resonant Frequency（Fr）	165±5Khz
7	径向反谐振频率 Radial Anti-Resonant Frequency	197±5Khz
8	压电陶瓷片直径 D1 piezoelectric ceramic disc diameter	12+0/-0.15mm
9	压电陶瓷片厚度 T1 piezoelectric ceramic disc thickness	2.06±0.04mm
10	压电陶瓷片单个重量 piezoelectric ceramic disc Weight	1.79g

Test Conditions: The Ceramic element should be measured under a condition,

Temp: 25±3℃ and Humidity:40％～70％R.H.

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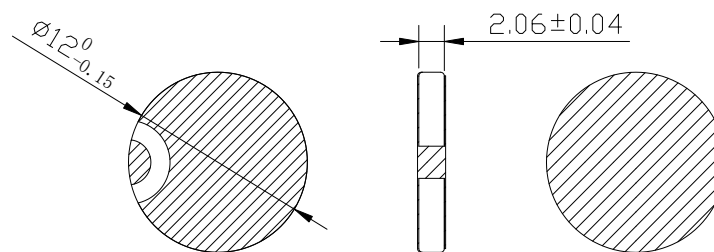
（Unit：mm）

6.   Package

Qty/Carton	Inner Box Size (cm)	Outer Carton Size (cm)	NW(Kg)
5000	31.2×17.2×8.7	36.7×32.7×20.5	14.5

Remark：1250pcs ceramic elements in the inner box and 4Boxs in one carton

7.   Notes

1. The ultrasonic transducer should ba packed completely in the closed environment, there is no acidic, alkaline, or other corrosive gases around it, no strong mechanical vibration or magnetic field in the warehous.

2. Because strong impact stress on the transducer leads to damage the appearance and damage the electronic performance of it , so please take it with care to prevent strong impact stress on it..

3. The ultrasonic transducer should be taken by hand with the clean gloves or fingerstall to prevent the oil or sweat to contaminate the electrode surface of it.

4. The main material of the ultrasonic transducer is lead zirconate-titanate ceramics, so please abide by the local Environmental laws and regulations when discarding.

版本记录（Revision History）

Revision No.	Date	Page	Description
Rev.0	2016-12-14	/	New Spec
Rev.01	2017-05-10		Spec Format Updated
Rev.02	2024-10-15		Increased Radical Fr parameters