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**超 声 波 雾 化 片**

**Ultrasonic Piezoelectric Atomizing Transducer**



产品专利号: ZL200420043994.7  
 Patent Number: ZL200420043994.7

本公司的超声波雾化片技术, 与传统的以镍或钛为电极的雾化片相比, 我们的特殊保护电极在耐酸、耐碱、耐空化腐蚀方面性能优越, 具有电极强度高, 不易结垢, 实际使用寿命长的特点。

we are producing ultrasonic piezoelectric atomizing transducers of compact and higher performances. Our specially electrode protection layer of the transducer is far superior to Nickel or Titanium electrode used in traditional transducers, it has more advantages in withstanding acid, alkaline and cavitation corrosion, so it features higher strength, less water scale, and longer lifetime.

- 1、品名(Name): **HN0014-000**
- 2、产品型号(Model): **AW16Y20120B2**
- 3、命名规则 (Part Numbering)

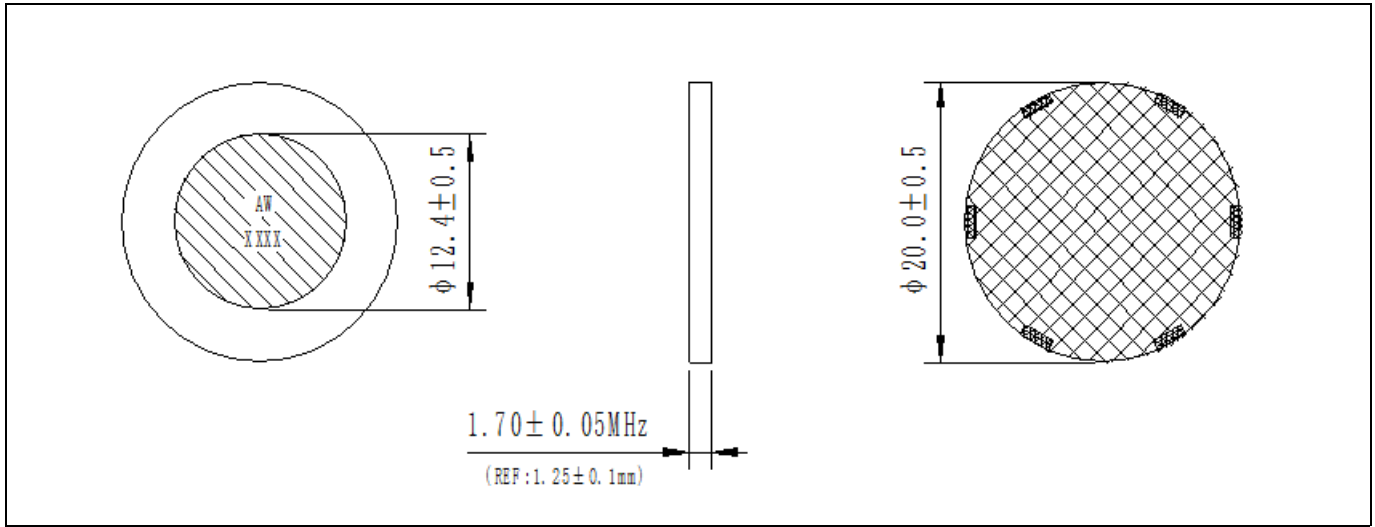
EX. **AW** **16** **Y** **20** **120** **B** **2**  
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① 奥迪威公司代码 Audiowell
- ② 压电陶瓷材料号 Ceramic material code
- ③ 电极材质代码 Y,N,J……=Electrode material code
- ④ 产品直径 (mm) Diameter of element
- ⑤ 产品厚度 (10<sup>-2</sup> mm) Thickness of element
- ⑥ 电极形状代码 A,B,C,D……=Electrode shape
- ⑦ 保护层代码 1,2,3……=Coating material code

4、性能参数(Electrical specification):

| 项目<br>Item   | 单位<br>Unit | 标准<br>Standard | 测试条件(Test condition)<br>T=25℃                             |
|--|------------|----------------|---|
| 谐振频率(Ft)<br>Thick resonant frequency                     | MHz        | 1.70±0.05      | Agilent 4294A   |
| 谐振阻抗(R)<br>Resonant impedance                            | Ω          | ≤1.0           | Agilent 4294A   |
| 静电容量(C <sub>0</sub> )<br>Static capacitance              | pF         | 1500±20%       | 数字电桥 At 1000Hz/1V<br>Digital electric bridge At 1000Hz/1V |
| 机电耦合系数(Kt)<br>Electrical-mechanical coupling coefficient |            | ≥0.45          | Agilent 4294A (Fs3/Fs1 查表值)                               |
| 寿命<br>Life time  | Hour       | 5000           |   |

5、外观尺寸(Appearance and dimensions): 计量单位(Unit): mm



备注: 产品中心电极增加喷码印字“AWXXXX”(其中XXXX为四位阿拉伯数字,代表年月,如10年8月的产品则印字:AW1008)

6、包装 (Package):

| 片/箱<br>PCS/CTN | 包装盘 008 (cm)<br>Carton 008 (cm) | 包装箱 010 (cm) (外尺寸)<br>Carton 010(Outside Size) (cm) | 毛重<br>Gross weight( Kg ) | 净重<br>Net weight (Kg ) |
|----------------|---------------------------------|---|--------------------------|------------------------|
| 2000           | 34.3*27.0*3.0                   | 36.0*28.5*14.0                                      | 7.5                      | 6.0                    |

7、使用注意事项: (Note)

- 雾化片要固紧, 平整;
- 雾化片要定期清洗, 不可有太多水垢;
- 保证设计线路时不要使水溶液中存在电位差而使雾化片电极产生电解;
- 工作时雾化片两端电压  $V_{p-p}$  小于等于 110V;
- 在任何情况下, 请勿自行焊接雾化片连接导线处, 以免对产品造成损害;
- 雾化片属易碎产品, 强烈的振动或撞击可能会损坏雾化片, 请小心安装;
- 雾化片使用过程中应防止出现干烧, 以避免产品性能出现衰退。

**NOTE:**

- The piezo shall be fastness and smooth.
- The piezo shall be cleaned regularly, make sure there's less scale on it.
- Make sure that no potential difference is existed in the water solution when design the circuit and thus result in the electrode of the piezo become electrolytic.
- $V_{p-p}$  of both ends of the piezo shall less than or equal to 110v.
- In any case, please do not reweld the solder joint of the piezo personally, so as to avoid damage to the product.
- The piezo is fragile, may be damaged by strong vibration or impact. So please install carefully.
- When using the piezo, please make sure to have anti-dry protection, so as to avoid product performance recession.

|                                 |  |                             |  |
|---------------------------------|--|-----------------------------|--|
| 制作/日期<br>Accomplished by / Date |  | 确认/日期<br>Approved by / Date |  |
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