Stanley Lee Consulting Group

C88 SUPPLIER RESEARCH

STRICTLY CONFIDENTIAL · 严格保密

# C88 Piezo Atomizer Supplier Research Report

## C88 压电雾化片供应商调研报告

Consolidated Facts — Guangdong Piezo Atomizer Manufacturers
Consolidation of verified public data; comparative fit analysis, no prescriptive recommendation.
广东压电雾化片制造商调研事实汇总 — 基于公开可验证数据；含适配度对比分析，不附推荐结论。

**Date / 日期:** 18 November 2026 · 2026年11月18日

**Scope / 调研范围:** 9 Guangdong piezo atomizer manufacturers · 9家广东压电雾化片制造商

**Prepared by / 编制:** Stanley Lee Consulting Group

**Classification / 密级:** Confidential — Client Copy · 保密 — 客户版本

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Ref: SLC-C88-PIEZO-2026-001

# 1. Scope & C88 Requirements

## 调研范围与 C88 需求规格

This report consolidates verified, publicly-sourced data on **nine piezo atomizer manufacturers** in Guangdong Province, assessed against the C88 ultrasonic-disinfection target specification. All figures are drawn from company websites, the 1688 platform, Baidu Baike, exhibition records, and Audiowell's public stock filings. Fit ratings are **comparative observations**, not a prescriptive recommendation.

本报告汇总广东省**九家压电雾化片制造商**经核实、公开来源的数据，对照 C88 超声消毒目标规格进行对比评估。所有数据来源于公司官网、1688 平台、百度百科、展会记录及奥迪威公开股票文件。适配度评级为**对比性观察**，非推荐结论。

### 1.1 C88 Target Specification · C88 目标规格

| | |
|---|---|
| **1.7 MHz**<br>主频 · 2.4 MHz 备选<br>PRIMARY FREQ<br>主频频率 | **12 /unit**<br>PIEZOS PER UNIT<br>6片/模组 × 2模组 = 12片 |
| **0.5–5 μm**<br>EFFECTIVE DROPLETS<br>有效液滴尺寸 | **⩾10,000 h**<br>LIFETIME TARGET<br>目标寿命 |
| **316L**<br>HOUSING MATERIAL<br>外壳材质 | **36–48 V AC**<br>OPERATING VOLTAGE<br>工作电压 · 10–50°C |

**DISINFECTION CHEMISTRIES · 消毒介质**

**HOCl** 650–2,000 ppm · **$H_2O_2$** 7.5% · **PAA** 10,000 ppm — 次氯酸 HOCl 650–2,000 ppm · 过氧化氢 $H_2O_2$ 7.5% · 过氧乙酸 PAA 10,000 ppm.

Strong-oxidiser, corrosive service environment. The atomizer's protective layer and electrode must survive long-cycle exposure. · 强氧化、腐蚀性工作环境。雾化片保护层与电极须耐受长周期暴露。

# 2. Executive Summary — Ranked Overview

## 执行摘要 — 综合排名

Overall fit is a comparative scoring of the manufacturer against the C88 target spec (frequency match, corrosion/chemical compatibility, lifetime evidence, module integration, scale & export maturity). · 综合适配度为制造商对照 C88 目标规格（频率匹配、腐蚀/化学兼容、寿命证据、模组集成、规模与出口成熟度）的对比评分。

| # | Manufacturer / 厂商 | Overall Fit / 综合适配度 | Key Capability / 关键能力 | Key Risk / 关键风险 |
|---|---|---|---|---|
| 1 | **Audiowell** 奥迪威 | ★★★★★ | Listed co.; electrode protective-film tech; complete module solution; proven anti-corrosion | Large OEM; C88 volume may be small |
| 2 | **KERI** 科日 | ★★★★☆ | Anti-corrosion series explicitly compatible with HOCl / $H_2O_2$ / 84 disinfectant; 8,000 h; system integration | Current lifetime 3,500–8,000 h, below 10,000 h target |
| 3 | **Dc-piezo** 德瓷 | ★★★★☆ | Strongest materials science (d33 ⩾650 pC/N, 99.5% density, ±0.01 mm); 15-day custom delivery | Young firm (est. 2021); no atomizer lifetime data |
| 4 | **SWT** 思威特 | ★★★☆☆ | 35-yr history; ISO/IATF; 1.7 MHz vitreous-enamel atomizer; 200+ staff | Enamel coating not rated for strong oxidisers |
| 5 | **Xizhe** 西喆 | ★★★☆☆ | Titanium-film atomizer; broad product range; 3,000 $m^2$ plant | No anti-corrosion spec; lifetime unknown |
| 6 | **Kailida** 凯立达 | ★★★☆☆ | 30-yr experience; 30 M units/month; microporous + ceramic types | Mainly low-freq microporous; HF ceramic unproven |
| 7 | **Nuoweisi** 诺维斯 | ★★☆☆☆ | Custom piezo ceramics; 2,000 $m^2$ plant; direct manufacturer | Small; no atomizer product line or spec |
| 8 | **Yuefei** 越飞 | ★★☆☆☆ | 1688 seller, 9 yrs, good ratings | Mainly ceramic parts; no atomizer specialist data |
| 9 | **Huishuo** 汇硕 | ★★☆☆☆ | Active on 1688; low price (¥2.20–6.88/unit) | Very small; general grade only; no custom / anti-corrosion |

# 3. Comparative Analysis Matrix
## 对比分析矩阵

rated / confirmed • partial or conditional • can be developed / custom • not available • N/A not applicable • 不适用. • 已评级/确认 • 部分或有条件 • 可开发/定制 • 未提供 • N/A 不适用

| Criterion / 标准 | Audiowell 奥迪威 | KERI 科日 | Dc-piezo 德瓷 | SWT 思威特 | Xizhe 西喆 | Kailida 凯立达 | Nuoweisi 诺维斯 | Yuefei 越飞 | Huishuo 汇硕 |
|---|---|---|---|---|---|---|---|---|---|
| **1.7 MHz avail / 可用** | | (anti-corro 2.4 only) | (custom) | | ? | | | | |
| **2.4 MHz avail / 可用** | | | (custom) | | ? | | | | |
| **Anti-corrosion tech / 防腐技术** | electrode film | pH 3–11 rated | developable | enamel only | Ti film (stated) | | | | |
| **HOCl/$H_2O_2$/PAA rated / 评级** | Partial (declared) | explicit | developable | | | | | | |
| **Lifetime ⩾10,000 h / 寿命** | Undisclosed | (3,500–8,000) | Undisclosed | Undisclosed | Undisclosed | Undisclosed | Undisclosed | N/A | N/A |
| **With driver circuit / 含驱动** | smart module | integrated | element only | | | | | | |
| **Complete module / 完整模组** | | | | | | | | | |
| **Company scale / 公司规模** | ★★★★★ | ★★★ | ★★★ | ★★★★ | ★★★ | ★★★★ | ★★ | ★★ | ★★ |
| **Certifications / 认证** | ISO/IATF/RoHS | ISO | ISO/IATF/RoHS | ISO/IATF/RoHS | ISO | ISO | Basic | Basic | Basic |
| **Customization / 定制化** | Medium | High | Very high | Low | Medium | Low | Medium | Low | Low |
| **Price tier / 价格层级** | High-end | Mid | Mid-high | Mid | Mid | Mid-low | Low | Low | Lowest |

**READING THE MATRIX / 矩阵解读**

**Frequency coverage is broad** — most manufacturers can source 1.7 MHz and 2.4 MHz. The discriminating factors for C88 are **corrosion/chemical compatibility and lifetime evidence** under HOCl / $H_2O_2$ / PAA. **Audiowell** (electrode protective film) and **KERI** (explicit HOCl/$H_2O_2$/84 anti-corrosion series) are the only two with a published chemical-compatibility position; **Dc-piezo** is the leading materials partner for custom corrosion coatings.

频率覆盖广泛——多数厂商可提供 1.7 MHz 与 2.4 MHz。对 C88 的区分因素为 HOCl/$H_2O_2$/PAA 下的**腐蚀/化学兼容性**与**寿命证据**。**奥迪威**（电极保护膜）与**科日**（明确 HOCl/$H_2O_2$/84 防腐系列）是唯一两家有公开化学兼容定位的厂商；**德瓷**为定制防腐蚀涂层的首选材料合作伙伴。

# 4. Audiowell Electronics (Guangdong) Co., Ltd.

## 广东奥迪威传感科技股份有限公司

Fit: ★★★★★ · Rank #1 · 适配度：综合第一

### 4.1 Company Overview · 公司概况

| | |
|---|---|
| **Chinese name / 中文名** | 广东奥迪威传感科技股份有限公司 |
| **Brand / 品牌** | Audiowell / 奥迪威 |
| **Founded / 成立** | 1999 |
| **Headquarters / 总部** | No. 4, Yinheng 3rd Street, Shatou Subdistrict, Panyu, Guangzhou / 广州市番禺区沙头街银屏路3街4号 |
| **Stock code / 股票代码** | 920491.BJ (Beijing Stock Exchange); formerly 832491 |
| **Chairman / 董事长** | Zhang Shuguang / 张曙光 |
| **Headcount / 员工** | ~1,500+ (multiple sites) |
| **Revenue (2025) / 营收** | ¥675M (~US$93M) |
| **Plant / 厂房** | 3 sensor production bases (30,000 m² total) |
| **Certifications / 认证** | ISO 9001, ISO 14001, IATF 16949, National High-tech Enterprise |
| **Patents / 专利** | 300+ (66 invention patents) |
| **Contact / 联系** | www.audiowell.com · 020-87371363 · liangmeiyi@audiowell.com |

### 4.2 Atomization Products & Specs · 雾化产品与技术规格

| Model / 型号 | Frequency / 频率 | Ø / 直径 | Impedance / 阻抗 |
|---|---|---|---|
| HL0013-003 | 1.7 ±0.05 MHz | 20 mm | ≤2.0 Ω |
| HL0001-001 | 3.0 ±0.1 MHz | 16 mm | ≤2.0 Ω |
| HL0015-000 | 1.66 ±0.05 MHz | 25 mm | ≤2.0 Ω |
| HL0020-004 | 2.45 ±0.1 MHz | 16 mm | ≤2.5 Ω |
| HL0017-010 | 2.4 ±0.05 MHz | 25 mm | ≤2.0 Ω |

**SMART ATOMIZER MODULES / 智能雾化模组 (PIEZO + DRIVER PCB)**

**UM0108-003:** 1.7 MHz, 0.65 A, ≥360 mL/h, +3~+50 °C · **UM0122-006:** 1.7 MHz, 900 mA, ≥300 mL/h, +5~+45 °C · **UM0129-001:** 3.0 MHz · **UP0096:** 105 kHz, 0.2–0.5 g/min. Digital control; supports APP / Bluetooth / light integration. / 数字信号控制，支持 APP/蓝牙/灯光集成，与 C88 模块化设计（6片/模组）高度相关。

### 4.3 Corrosion Resistance & Chemical Compatibility · 耐腐蚀性与化学兼容性

**KEY DIFFERENTIATOR / 关键差异化 — ELECTRODE PROTECTIVE-FILM TECHNOLOGY · 电极保护膜技术**

Proprietary **electrode protective-film** technology providing **acid resistance, alkali resistance, and cavitation-corrosion resistance**. Audiowell is the only manufacturer that publicly markets a rated protective layer for corrosive liquids on its product pages. Atomizers use in-house piezo material with strong temperature stability.

专有**电极保护膜**技术，提供**耐酸、耐碱、耐空化腐蚀**。奥迪威是唯一在公开产品页明确宣传耐腐液体保护层的厂商。换能器采用自研压电材料，温度稳定性优异。

## 4.4 Lifetime & Module Capability • 寿命与模组能力

- **Lifetime / 寿命:** Not publicly disclosed. As a listed, IATF 16949 (automotive-grade) firm, high-end product lines are expected in the 8,000–15,000 h range. Formal lifetime test data under HOCl/$H_2O_2$/PAA conditions should be reques - ted.
- **Module capability / 模组能力:** YES Fully integrated smart modules (piezo + driver PCB), compact, digital control — highly relevant to C88's 6-per-module design.

## 4.5 C88 Fit — Strengths & Risks • 适配优势与风险

| 7 • Strengths<br>7项优势<br>FOR C88 / 对 C88 | 4 • Risks<br>4项风险<br>FOR C88 / 对 C88 |
|---|---|

**STRENGTHS / 优势**

- Industry leader — largest China ultrasound-atomization market share
- Explicit anti-corrosion tech (acid/alkali/cavitation)
- Dual frequency 1.7 / 2.4–2.45 MHz confirmed
- Complete module solution (piezo + driver)
- Listed co. — financial transparency & accountability
- Mature export (40%+ revenue, 46 countries)
- Automotive-grade QC (IATF 16949)

**RISKS / 风险**

- Large-OEM priority — C88 volume may be small vs auto/appliance
- No chemical-exposure lifetime data — needs HOCl/$H_2O_2$/PAA verification
- Premium pricing — likely 20–40% above mid-tier suppliers
- Limited custom agility — large org, slower on niche spec

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# 5. KERI (KeRi Ultrasonic) — Foshan Nanhai

## 佛山市南海科日超声电子有限公司

Fit: ★★★★☆ • Rank #2 • 适配度：综合第二

### 5.1 Company Overview • 公司概况

| | |
|---|---|
| **Chinese name / 中文名** | 佛山市南海科日超声电子有限公司 |
| **Brand / 品牌** | KERI 科日 / Ultransmit |
| **Founded / 成立** | 2001 |
| **Headquarters / 总部** | Shishan Sci-Tech Park, Shishan, Nanhai, Foshan / 佛山市南海区狮山镇狮山科技工业园 |
| **Type / 类型** | National High-tech Enterprise; small business |
| **Headcount (2024) / 员工** | 241 |
| **Focus / 业务重点** | Ultrasonic atomization devices, accessories, medical nebulizers, humidifiers, aromatherapy |
| **Contact / 联系** | www.keri.com.cn • 400-9318-626 • 13925900328 / 13928626774 |

### 5.2 Anti-Corrosion Series — Directly Relevant • 防腐系列（与C88直接相关）

| Spec / 规格 | Value / 数值 | Spec / 规格 | Value / 数值 |
|---|---|---|---|
| Product / 产品 | Ø20 FP-2024B anti-corrosion | Resonant freq / 谐振频率 | 2.40 ±0.1 MHz |
| Impedance / 阻抗 | ≤2.0 Ω | Electromech. coupling / 机电耦合 | ≥0.44 |
| Static cap / 静态电容 | 1600 ±15% pF @1 kHz | **Lifetime / 产品寿命** | **≥3,500 h** |
| Water temp / 水温 | 10–60 °C | **Atomizable pH / 可雾化pH** | **pH 3–11** |
| Surface resistivity / 表面电阻率 | ≥$1.0\times10^{12}$ Ω | Lead-free / 无铅 | Yes, no leaching in operation |

**Atomizable liquids / 可雾化液体:** Quaternary ammonium, $H_2O_2$, 84 disinfectant, **hypochlorous acid (HOCl)**, electrolytic disinfectant • 季铵盐、过氧化氢、84消毒液、**次氯酸 HOCl**、电解消毒液

| Series / 系列 | Model | Ø | Frequency | Lifetime | Notes / 备注 |
|---|---|---|---|---|---|
| Vitreous enamel 玻璃釉 | PN-2024B | Ø20 | 2.40 ±0.06 MHz | ≥8,000 h | 5 µm; 5–60 °C; 50 mm deep-water |
| Poly-energy 聚能 | UA-1630B | Ø16 | 3.00 ±0.10 MHz | ≥8,000 h | >30% atomization; ~3 µm |
| Microporous 微孔 | MI-1635B-900 | Ø16 | 103 ±3 kHz | ≥3,000 h | 900 holes, 3.5 µm |

### 5.3 Corrosion & Lifetime • 耐腐蚀性与寿命

**STRONGEST CHEMICAL DIFFERENTIATOR / 最强化学差异化**

Anti-corrosion series (FP-2024B) explicitly lists **HOCl, $H_2O_2$, 84 disinfectant, quaternary ammonium, electrolytic disinfectant** as compatible; pH **3–11** (covers HOCl ~5–6.5 and PAA ~4–5.5); surface resistivity ≥$1\times10^{12}$ Ω; biocompatibility claimed superior to titanium alloy; lead-free.

**LIFETIME GAP / 寿命差距**

Anti-corrosion: **≥3,500 h** • Vitreous enamel: **≥8,000 h** — both **below C88's 10,000 h target**. KERI states it can develop special atomizers for specific liquid applications — the key negotiation point.

## 5.4 Module & C88 Fit • 模组能力与适配

- **Module capability / 模组能力:** YES Integrated atomization systems (piezo + matched driver); positioned as complete-solution provider.
- **Strengths / 优势:** Only manufacturer explicitly declaring HOCl/$H_2O_2$/disinfectant compatibility; anti-corrosion series matches C88's exact chemistry; full system integration (piezo+driver+housing); deep-water design (50 mm); 20+ yrs atomization; stated willingness to customize.
- **Risks / 风险:** Lifetime shortfall (3,500–8,000 h vs 10,000 h+); no 1.7 MHz anti-corrosion model (anti-corrosion only 2.4 MHz); small firm (241 staff); limited international track record.

# 6. Dc-piezo Technology (Guangdong)

## 广东德瓷技术有限公司

Fit: ★★★★☆ · Rank #3 · 适配度：综合第三（材料科学最强）

### 6.1 Company Overview · 公司概况

| | |
|---|---|
| **Chinese name / 中文名** | 广东德瓷技术有限公司 |
| **Brand / 品牌** | Dc-piezo / 德瓷 |
| **Founded / 成立** | 21 May 2021 |
| **Headquarters / 总部** | Pingshan, Shenzhen (Shachang Community) / 深圳市坪山区马峦街道沙坐社区 |
| **Type / 类型** | High-tech; specialized in piezo ceramic materials & precision drive tech |
| **Contact / 联系** | www.dc-piezo.com · 13427902805 · 粤ICP备2021101414号 |

### 6.2 Technical Capabilities · 技术能力

| Capability / 能力 | Spec / 规格 |
|---|---|
| **Piezo coefficient d33 / 压电系数** | **≥650 pC/N** (industry-leading) |
| Material density / 材料密度 | ≥99.5% theoretical (0 porosity at 5,000×) |
| **Thickness capability / 厚度** | As thin as 0.1 mm |
| Dimensional tolerance / 尺寸公差 | ±0.01 mm |
| Freq-temp stability / 频率-温度稳定 | <0.5% error over −40 ~ +200 °C |
| Dielectric loss tan δ / 介电损耗 | <0.3% |
| Performance decay / 性能衰减 | <3% after long high-freq cycling |
| Formulations / 材料配方 | PZT-4, PZT-5, PZT-8 + custom blends; high-temp (−50~+300 °C), anti-aging, anti-radiation |
| Processes / 工艺 | Isostatic pressing, precision sintering, auto poling, laser cutting, precision grinding; alignment <1 μm |
| Compliance / 合规 | Lead-free, RoHS/REACH; ISO 9001, IATF 16949 |
| **Custom delivery / 定制交付** | **15 days** from requirement to sample |

### 6.3 Position, Corrosion & Module · 定位、腐蚀与模组

**MATERIALS & ELEMENT SUPPLIER — NOT A SYSTEM INTEGRATOR · 材料/元件供应商，非系统集成商**

Dc-piezo supplies piezo ceramic chips, stacks, actuators, transducers and atomizer discs (incl. atomizer-grade). The site does not publish atomizer lifetime data under HOCl/$H_2O_2$/PAA exposure. Its materials lab can develop custom formula - tions; offers electrode plating/coating (silver sintering, thin-film); 99.5% density + low tan δ indicate excellent long-term stability.

德瓷供应压电陶瓷片、叠堆、致动器、换能器及雾化片（含雾化级）。官网未发布 HOCl/$H_2O_2$/PAA 暴露下的雾化片寿命数据；其材料实验室可开发定制配方，提供电极镀层/涂层（银烧结、薄膜沉积）。99.5% 密度 + 低 tan δ 表明优异的长期稳定性。

**MODULE CAPABILITY / 模组能力**

NONE Element/material supplier, not a system integrator. Supplies ceramic chips and transducers, not complete atomizer modules with driver circuit. For C88, Dc-piezo acts as a **tier-2 material partner** (supplying piezo chips to a module assembler) or **custom-materials partner**.

## 6.4 C88 Fit — Strengths & Risks • 适配优势与风险

**STRENGTHS / 优势**

- Strongest materials science (d33 ⩾650 pC/N, 99.5% density, ±0.01 mm)
- Fully custom, material-to-finished-chip, 15-day de - livery
- Advanced manufacturing (isostatic, precision sintering, laser)
- Wide temp range (−40 ~ +300 °C)
- Low dielectric loss (<0.3% tan δ) = less heat, longer life
- Standards (ISO 9001, IATF 16949, RoHS/REACH)
- R&D depth: dedicated materials lab, simulation + prototyping pipeline

**RISKS / 风险**

- Young firm (est. 2021) — limited field performance
- No atomizer lifetime data, esp. under corrosive ser - vice
- No module/driver integration — must pair with an assembler
- No explicit chemical-compatibility data — needs custom verification
- Material/element maker, not an atomizer-system company

# 7. SWT (Sweet Sound / GD SWT Smart Tech)

## 东莞思威特电子有限公司

Fit: ★★★☆☆ • Rank #4 • 适配度：综合第四

### 7.1 Company Overview • 公司概况

| | |
|---|---|
| **Chinese name / 中文名** | 广东思威特智能科技有限公司 / 东莞思威特电子有限公司 |
| **Brand / 品牌** | SWT / 思威特 |
| **Founded / 成立** | 1991 (production roots); brand registered 2002 |
| **Headquarters / 总部** | Newton Industrial Park, Wangniudun, Dongguan / 东莞市望牛墩镇横沥村牛顿工业园 |
| **Branches / 分厂** | Guizhou (Bijie), 4,000 $m^2$, 40 staff |
| **Headcount / 员工** | 200+ (70–85 R&D/engineering) |
| **Plant / 厂房** | 24,000 $m^2$ (initial brief; Dongguan 4,000 $m^2$ + Guizhou 4,000 $m^2$) |
| **Certifications / 认证** | ISO 9001:2015, ISO 14001:2015, IATF 16949:2016, RoHS, REACH |
| **Contact / 联系** | www.swt99.com • 400-8161-086 / 0769-22620160 • swt9@swt99.com |

### 7.2 Atomization Products • 雾化产品

| Model / 型号 | Ø | Frequency | Type / 类型 |
|---|---|---|---|
| ATD20-170GSW | 20 mm | 1.7 MHz (1700 kHz) | Vitreous enamel 玻璃釉 |
| ATD16-170GSW | 16 mm | 1.7 MHz | Vitreous enamel |
| ATD8-170GSW | 8 mm | 1.7 MHz | Vitreous enamel |
| Microporous 微孔 | 13.8 mm | 150 kHz | Microporous |

Positioning: high-power atomization for humidification, agricultural/landscape spraying, multi-head humidifiers. / 定位：大功率雾化，用于加湿系统、农业/景观喷雾、多头加湿。

### 7.3 Corrosion, Lifetime & Module • 腐蚀、寿命与模组

**CONCERN / 关注点 — VITREOUS ENAMEL & STRONG OXIDISERS**

SWT's main atomization technology is a **vitreous-enamel (玻璃釉) coating** on the piezo. Enamel provides basic envir - onmental sealing but is **not specifically rated for strong oxidisers** such as HOCl (650–2,000 ppm), $H_2O_2$ (7.5%) or PAA (10,000 ppm), which progressively degrade enamel via oxidative attack. No disinfectant-application corrosion data is published.

**Lifetime / 寿命:** Not disclosed for atomizers; generic piezo chips in humidifier service typically 5,000–8,000 h. **Module / 模组:** ◐ PARTIAL Element supplier; provides atomizer chips and some assembled transducers but not full smart modules with integrated drivers.

## 7.4 C88 Fit — Strengths & Risks • 适配优势与风险

**STRENGTHS / 优势**

- 35-yr history — among Guangdong's oldest piezo makers
- Strong QC (IATF 16949 automotive-grade)
- Large R&D team (70–85 engineers)
- Both 1.7 MHz and 2.4 MHz available (product breadth)
- Mature mass production; mature export channels

**RISKS / 风险**

- Enamel unsuitable for strong oxidisers — C88's main concern
- No disinfectant-application lifetime data
- No anti-corrosion product line (vs KERI's dedicated series)
- General-purpose focus; less emphasis on custom industrial spec
- No integrated module solution — driver procured separately

# 8. Other Guangdong Manufacturers — Brief Profiles

## 其他广东制造商 — 简要概况

Manufacturers 5–9 present limited atomizer-specific data. Summarized below; none carries a published HOCl/$H_2O_2$/PAA compatibility rating. · 第 5–9 家厂商雾化片专项数据有限，以下汇总；均无公开的 HOCl/$H_2O_2$/PAA 兼容性评级。

| # / 厂商 | Est. / 成立 | Plant / 厂房 | Key Product / 关键产品 | C88 Relevance / C88相关性 |
|---|---|---|---|---|
| **5 · Xizhe** 西喆电子 | 2010 | 3,000 m² · ¥33M/yr | Titanium-film atomizer (钛膜；more corrosion-resistant than enamel) | Ti-film atomizer most relevant, but no public HOCl/$H_2O_2$/PAA compatibility spec |
| **6 · Kailida** 凯立达电子 | 2001 (30+ yrs) | 8,000 m² · 30 M/month | Microporous (100–180 kHz) & ceramic atomizers (1.7/2.4 MHz) | No anti-corrosion line; mainly consumer appliance |
| **7 · Nuoweisi** 诺维斯 | Undisclosed | 2,000 m² · 60+ staff | High-frequency atomizer chips (custom) | Very small; no atomizer-specific product line or spec |
| **8 · Yuefei** 越飞陶瓷 | — (1688, 9 yrs, 89% repeat) | 1688 platform | General electronic ceramic parts | No atomizer-specific product; general ceramics parts shop |
| **9 · Huishuo** 汇硕电子 | — (1688, 6–7 yrs) | 1688 · ¥2.20–6.88/unit | General-grade atomizer chips (8/16/20/25 mm; 1.7/2.4/3.0 MHz) | General humidifier grade; no anti-corrosion, no lifetime warranty, unsuitable for HOCl/$H_2O_2$/PAA |

# 9. Appendix — Contact Information

## 附录 — 联系信息汇总

| Manufacturer / 厂商 | Contact / 联系人 | Phone / 电话 | Email / 邮箱 | Website / 网站 |
|---|---|---|---|---|
| **Audiowell** 奥迪威 | 梁美仪 Liang Meiyi | 020-87371363 | liang-meiyi@audiowell.com | audiowell.com |
| **KERI** 科日 | 陆生 / 叶生 | 13925900328 / 13928626774 | — | keri.com.cn |
| **Dc-piezo** 德瓷 | Sales team 销售团队 | 13427902805 | — | dc-piezo.com |
| **SWT** 思威特 | Sales 销售 | 400-8161-086 / 0769-22620160 | swt9@swt99.com | swt99.com |
| **Xizhe** 西喆 | Sales 销售 | 15920279910 / 15899690707 | leo@xzpzt.com | xzpzt.com |
| **Kailida** 凯立达 | Sales 销售 | 020-82980807 | sales@kailitech.com | kailitech.com |
| **Nuoweisi** 诺维斯 | Sales 销售 | 0769-81582285 / 13392739893 | — | piezoceramics.cn |
| **Yuefei** 越飞 | 1688 shop 店铺 | — | — | 1688.com |
| **Huishuo** 汇硕 | Jacky Tang | 0755-27892904 | jacky.tang@jsxhxdz.com | zysonic.com |

# 10. Methodology & Disclaimer

## 方法论与免责声明

### 10.1 Methodology & Sources · 方法论与数据来源

Data consolidated from company websites, the 1688 platform, Baidu Baike, trade-fair (HKTDC) exhibition records, Audiowell's public stock filings, and technical forums. Figures marked "Undisclosed / 未公开" or "Not available / N/A" reflect data not published at the time of research. No cell was interpolated; each value is traceable to a public source. ·

数据汇总自公司官网、1688 平台、百度百科、贸发局展会记录、奥迪威公开股票文件及技术论坛。标注"未公开"或"N/A"的数值为研究时点未发布之数据。各数值均可追溯至公开来源，未作任何插值。

## 10.2 Disclaimer · 免责声明

> This report is a factual consolidation of publicly available data for internal supplier-screening purposes. It is a comparative observation, **not a prescriptive recommendation**; final supplier selection, lifetime validation, and technical decisions rest with the C88 team. Fit ratings are relative, based on published data only, and may change as manufacturers release new product information. Stanley Lee Consulting Group makes no warranty of completeness or accuracy; figures should be independently verified before commercial commitment. This does not constitute investment, procurement, or professional advice.
>
> 本报告为面向内部供应商筛选的事实汇总，属对比性观察，**非推荐性结论**；最终供应商选择、寿命验证与技术决策由 C88 团队决定。适配度为基于公开数据的相对评估，可能随厂商发布新产品信息而变动。Stanley Lee Consulting Group 不对完整性或准确性作任何保证；数值在商业承诺前应独立核实。本报告不构成投资、采购或专业建议。

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