| Approved by: |  |
| Checked by:  |  |
| Issued by:   |  |

PRODUCT: PIEZOELECTRIC CERAMICS TRANSDUCER

MODEL: TY-12-180E-EO

180KHz CASE
1. **SCOPE**

This specification covers the piezoelectric ceramic transducer for wee atomization.

2. **TYPE**

TY-12-180E-EO

3. **SPECIFICATIONS**

3.1 **DIMENSIONS**

As per the drawing No.TY-12-180E-EO

3.2 **ELECTRONICAL SPECIFICATION**

3.2.1 Resonant Frequency (fr)

\[ Fr = 180 \text{ KHz} \pm 5\text{KHz} \]

3.2.1 (Ro)

\[ Ro = \text{max. } 120\Omega \]

3.2.3 (Cp)

\[ Cp = 1150\text{pF} \pm 15\% \]

4. **TEST PROCEDURE**

4.1 **TEST ATOMSPHERE**

\[ 23 \pm 3^\circ \text{C} \quad 40\sim70\%\text{RH.} \]

4.2 **Fr AND Ro**

The HP-2818 Impedance Analyzer.

5. **INPUT FOR TRANSDUCER**

**MAXIMUM INPUT**

Voltage: 80 vp-p
6. INPUT VOLTAGE

Input Voltage: DC3-12V

7. POWER

Max Input Power 2W.

( Normal use 1~1.5w) DC3-12V

8. Configuration Sketch Map