

SPECIFICATIONS SHEET FOR APPROVAL

PIEZO ELEMENT
P/N: FE350032SW

**DESCRIPTION: D35mm H0.51mm Piezo Element, 3,200Hz, 35,000pF
add 97mm UL1571 AWG32# wire (black, blue & red)**

VERSION: 02

DATE: 16-Jul-09

REVISIONS

VERSION	DESCRIPTION	DATE
01	Released from engineering	9-Jul-09
02	Modified wire length from 100mm to 97mm, tipped end from 5mm to 2mm	16-Jul-09

APPROVED BY :

CUSTOMER NAME :

DATE :

SPECIFICATIONS SHEET

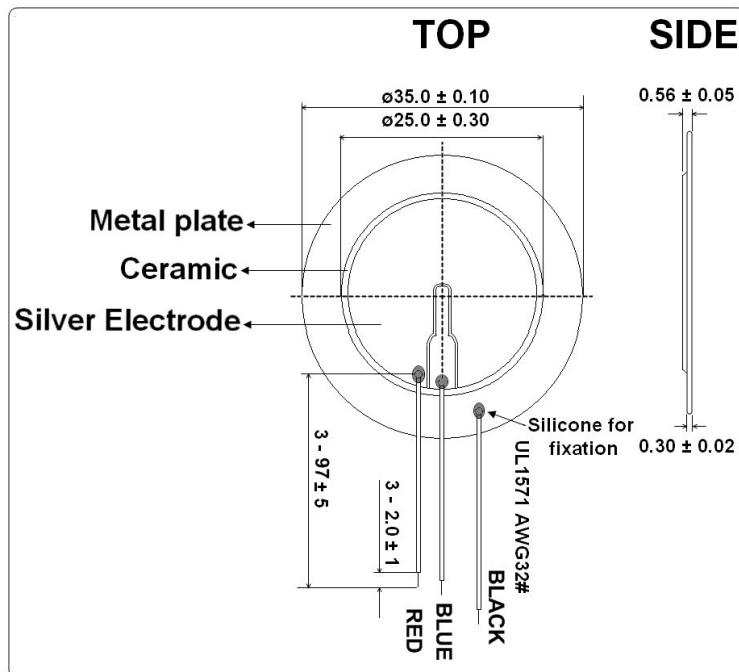
PIEZO ELEMENT
P/N: FE350032SW

1. SPECIFICATIONS

PARAMETERS	VALUES	UNITS
METAL PLATE DIAMETER	$\varnothing 35.0 \pm 0.10$	mm
CERAMIC DIAMETER	$\varnothing 25.0 \pm 0.30$	mm
METAL PLATE THICKNESS	0.30 ± 0.02	mm
TOTAL HEIGHT	0.56 ± 0.05	mm
MAX OPERATING VOLTAGE	30	Vp-p
RESONANCE FREQUENCY	$3,200 \pm 500$ (W/ wires)	Hz
RESONANCE IMPEDANCE (MAX)	500 (W/ wires)	Ohm
*MAIN ELECTROSTATIC CAPACITY	$35,000 \pm 30\%$ (W/O wires)	pF
*FEEDBACK ELECTROSTATIC CAPACITY	$4,300 \pm 30\%$ (W/O wires)	pF
OPERATING TEMPERATURE	-20 to +70	°C
STORAGE TEMPERATURE	-30 to +80	°C
METAL PLATE MATERIAL	Stainless Steel	-

*Tested at 1,000Hz/1V

2. DIMENSIONS (unit in mm)



Tolerance: ± 0.5 mm except specified

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All specifications subject to change without notice

3. RELIABILITY TEST

Testing Criteria

All specifications (in page 2) must be satisfied after below tests.

(Recovery: 2 to 4 hrs of recovery under the standard condition after the removal from test chamber.)

1) Life Test

Function at rated voltage in room temperature continuously for 1000 hrs.

2) Temperature Test

a) High Temperature

Exposure at $+70 \pm 3^\circ\text{C}$ for 240 hours(Non-Functioning)

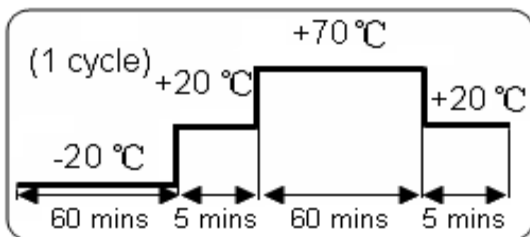
b) Low Temperature

Exposure at $-30 \pm 3^\circ\text{C}$ for 240 hours(Non-Functioning)

3) Humidity Test

Exposure at $+40 \pm 3^\circ\text{C}$ and 90%-95% relative humidity for 240 hours.

4) Thermal Shock Test



Exposure to above temperature cycle for 5 times.

5) Drop Test

Dropped naturally from 750mm height onto the surface of 10mm wooden board. 2 directions – upper and side of the part are applied.

6) Vibration Test

Frequency: 10~55~10Hz Oct/min ,Amplitude: 1.5mm Duration: 2 hours in each 3 axes.

7) Shock

980m/s² (=100g) shock for each mutually perpendicular directions, half sine wave, 3 times each.

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