



SPECIFICATIONS  
FOR APPROVAL

PIEZO-CERAMIC BUZZER  
(with built-in circuit)

	MODEL NO.:	<b>DSTPB-1475P-40-5</b>
	CUSTOMER PART NO.:	

<b>SIGNATURE AND COMPANY CHOP FOR APPROVAL:</b>	
<b>APPROVAL DATE:</b>	

NO.	DATE	REVISION RECORD		CAUSE OF REVISION	SIGN. REV.
		BEFORE REVISION	AFTER REVISION		
1					
2					
3					
4					

## 1. Scope

This Specification is applied to the piezo-ceramic buzzer with built-in circuit assembly which is used as alert in alarm system.

## 2. ELECTRICAL SPECIFICATIONS

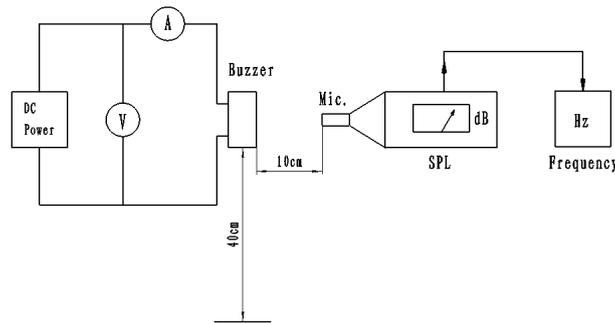
1	Rated Voltage	5VDC
2	Operating Voltage	3 – 7VDC
3	Rated Current	Max.10mA, at 5VDC
4	Sound Output at 10cm	Min.80dB, at 5VDC
5	Resonant Frequency	4000±500 Hz
6	Tone	Continuous
7	Operating Temperature	-20 - +70°C
8	Storage Temperature	-30 - +80°C
9	RoHS	Yes
10	Weight	Approx 1 g

## 3. Standard test conditions

Part shall be measured under a condition (Temperature: 5~35°C, Humidity: 45%~85%R.H., Atmospheric pressure: 860 ~1060hPa) unless the standard condition (Temperature: 25±3°C, Humidity: 60±10%R.H. Atmospheric pressure: 860 ~1060hPa) is regulated to measure.

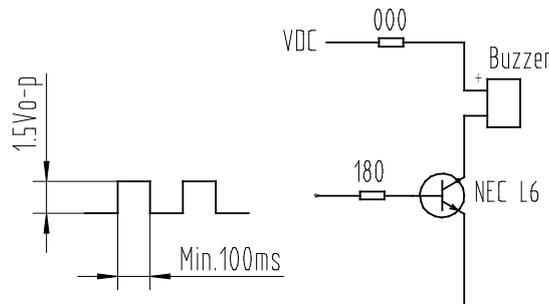
## 4. Test method

Standard test fixture

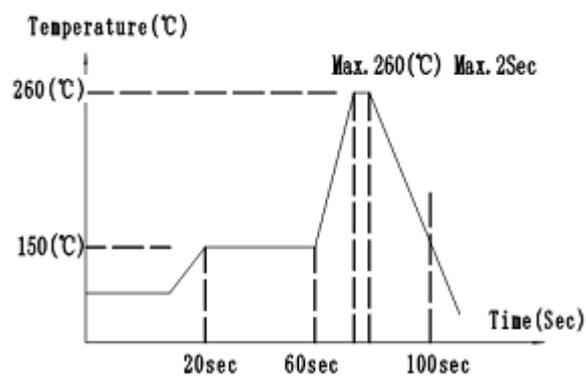


The electrical characteristics shall be measured at 20 to 25 & relative humidity 55% max.

Recommended Test Circuit



5. Recommended the wave soldering temperature



6. Reliability Test

After any following tests the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall not deviate more than -10 dB from the initial value

#### **Ordinary Temperature Life Test**

The part shall be subjected to 96 hours at  $25\pm 10^{\circ}\text{C}$ . Input rated voltage

#### **High Temperature Test**

The part shall be capable of with standing a storage temperature of +80 for 96 hours.

#### **Low Temperature Test**

The part shall be capable of with standing a storage temperature of  $-30^{\circ}\text{C}$  for 96 hours.

#### **Humidity Test**

Temperature:  $+40^{\circ}\text{C}\pm 3^{\circ}\text{C}$  Relative Humidity: 90%~95% Duration: 48 hours  
and expose to room temperature for 6 hours

#### **Temperature Shock Test**

Temperature:  $70^{\circ}\text{C}$  /1hour  $\rightarrow$   $25^{\circ}\text{C}$ /3hours  $\rightarrow$   $-20^{\circ}\text{C}$ /1hour  $\rightarrow$   $25^{\circ}\text{C}$ /3hours (1cycle)  
Total cycle: 10 cycles

#### **Drop Test**

Standard Packaging From 1.2m(Drop on hard wood or board of 5cm thick, three sides, six plain.)

#### **Vibration Test**

Vibration: 1000 cycles /min. Amplitude: 1.5mm, Duration: 1 hour in each 3 axes

## **7. Dimension**

**Tolerance +/- 0.5mm**

