

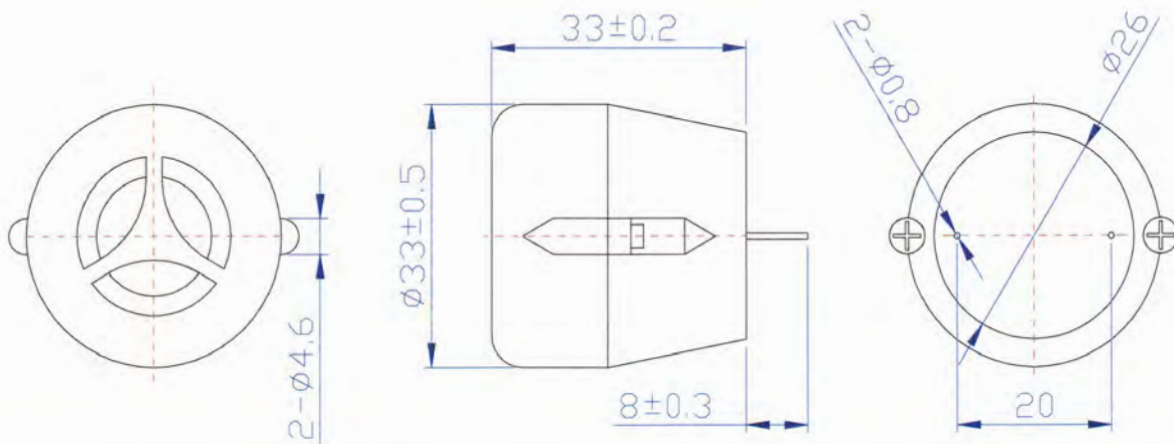
A. SCOPE

This specification applies active piezoelectric siren, P/N: BPS3333P-12-C

B. CHARACTERISTICS

#	Item	Unit	Specification	Remark
1	Resonant Frequency	KHz	1.5 ~ 3.5	
2	Operating Voltage	V	5 ~ 15	DC
3	Rated Voltage	V	12	DC
4	Current Consumption	mA	Max 150	@ rated voltage
5	Sound Pressure Level	dB	Min 100	100cm, dB(A)
6	Operating Temperature	°C	-30 ~ +80	
7	Storage Temperature	°C	-40 ~ +90	
8	Tone/ Pulse Rate	Hz	Sweep 3.3±20%	
9	Weight (Max)	gram	20	
10	Housing Material	/	ABS777B(Black)	UL94HB plastic resin
11	Leading Pin	/	Brass	Plated with Tin(Sn)
12	GP Compliance	/	RoHS	

C. MECHANICAL DIMENSION

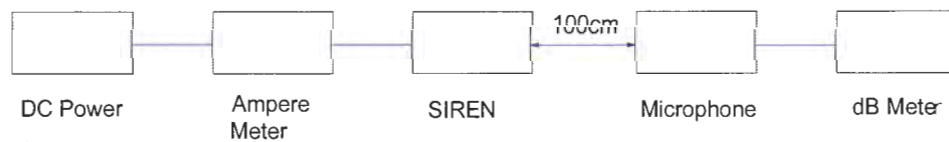


Unit: mm

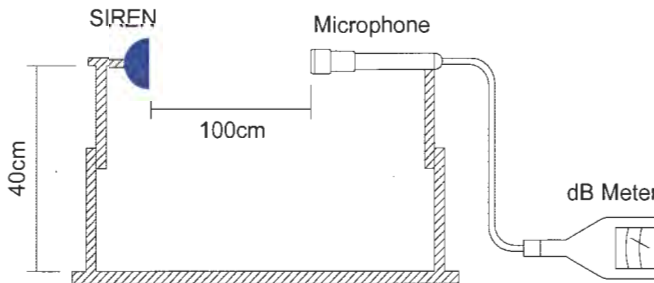
D. FUNCTION TEST

Environment Conditions: Temperature: $25\pm 2^{\circ}\text{C}$ Humidity: 45-60%

Acoustic Characteristics: The oscillation frequency, current consumption and sound pressure are tested by the testing instruments shown below



in this test, siren is placed as below:



E. RELIABILITY TEST

#	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	Place the test samples in a chamber with $+90\pm 2^{\circ}\text{C}$ for 96 hours and then place the samples in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$.
2	Low Temperature Test (Storage)	Place the test samples in a chamber with $-40\pm 2^{\circ}\text{C}$ for 96 hours and then place the samples in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$.
3	Humidity Test	Place the test samples in a chamber with 90-95% R.H. at $+40\pm 2^{\circ}\text{C}$ for 96 hours and then place the samples in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$.
4	Temperature Cycle Test	<p>The test samples shall be subjected to 5 cycles. One cycle should include:</p> <p>Allowable variation of SPL after test: $\pm 10\text{dB}$.</p>
5	Drop Test	Drop on a hard wood board of 4cm thick, any directions 3 times, at the height of 75cm. Allowable variation of SPL after test: $\pm 10\text{dB}$.
6	Vibration Test	Being applied the amplitude of 1.5mm (peak to peak) with the frequency of 10Hz to 55Hz (linear sweep) to each of 3 perpendicular directions for 1 hour. Allowable variation of SPL after the test: $\pm 10\text{dB}$.

Standard Mode: a) Temperature: $+5 \sim +35^{\circ}\text{C}$
 b) Humidity: 45-85%
 c) Pressure: 860-1060 mbar

Judgment Mode: a) Temperature: $+25 \pm 2^{\circ}\text{C}$
 b) Humidity: 60-70%
 c) Pressure: 860-1060 mbar

F. PACKING

- 1) Packing quantity: 320pcs sirens per carton (LxWxH=52x34x29cm);
- 2) One inner box consists of 1pcs;
- 3) GW: 9KG per carton; NW: 6.5KG per carton;