



DEVETECH ELECTRONICS CO. LTD

BUZZER
CUSTOMER: DACHS ELECTRONICA
P/N: DVZ1407T2P40B(10.23)

DESIGNED BY	
CHECKED BY	
APPROVED BY	

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1. Scope

This specification applies piezoelectric passive buzzer, DVZ1407T2P40B(10.23).

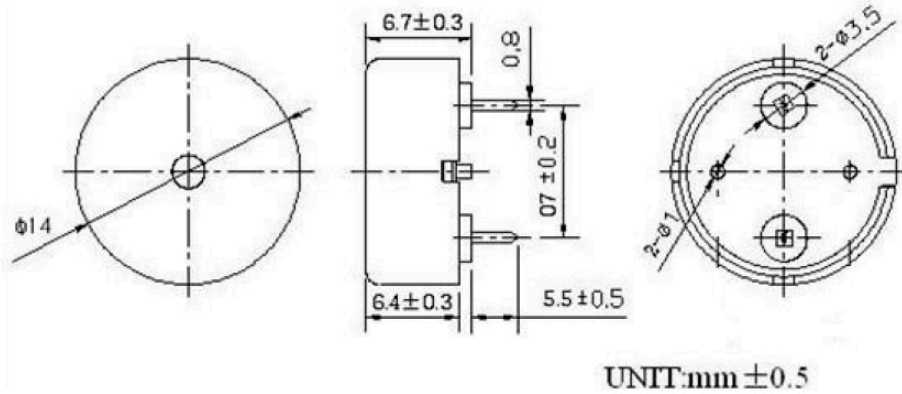
2. Specification

No.	Item	Unit	Specification	Condition
1	Electrostatic capacity	pF	30,3000± 30%	At 120Hz/1V
2	Operating Voltage	Vp-p	1-30	
3	Sound Pressure Level	dB	Min. 85	At 10cm/10Vp-p square wave,4.0KHZ
4	Rated current	mA	1000± 500	
5	Frequency of output Signal		-30~75	
6	Operating Temperature	°C	30~75	
7	StorageTemp	°C	-40~85	
8	Dimension	mm	Φ12.5*H6	See appearance drawing
9	Material		ppo(BLACK)	
10	Terminal		Pin type	
11	Weight	g	1..	
	Environmental Protection Regulation		RoHS	

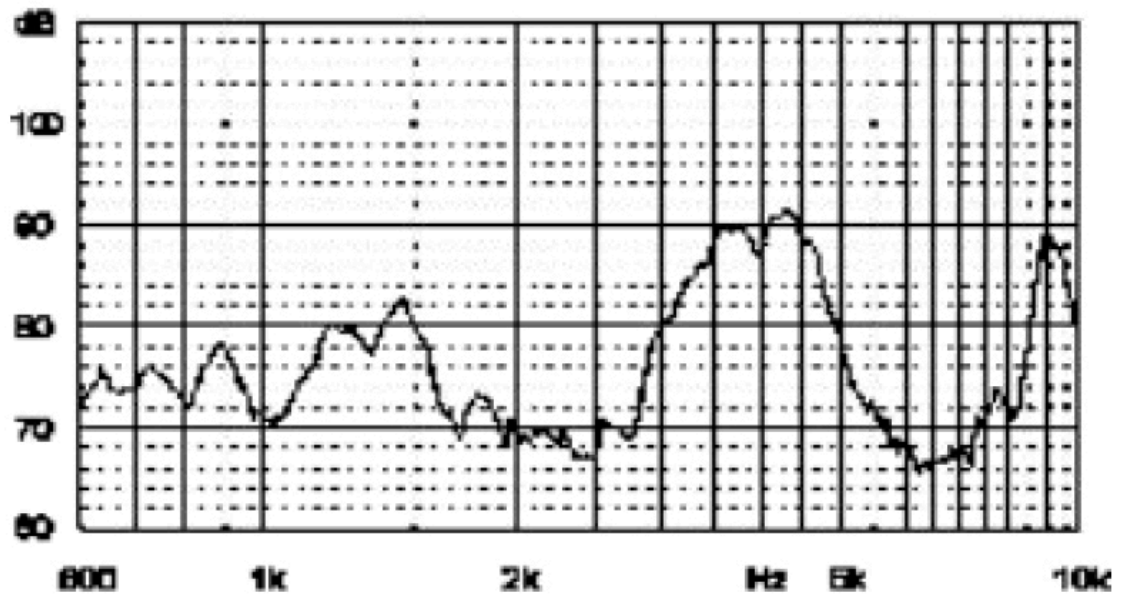
3. Appearance drawing

Model N°: DVZ1407T2P40B(10.23)

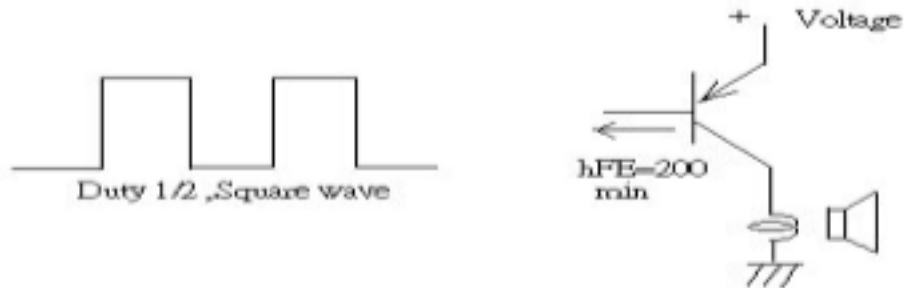
Unit: mm TOL: ± 0.2



4. Frequency Characteristics



5. Recommend Driving Circuit



The base current I_b should be high enough so that it saturates the collector current of the transistor with the CB load.

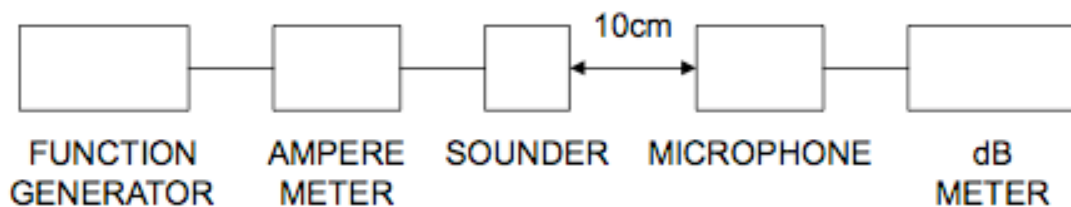
6. Testing Method

Standard Measurement Conditions

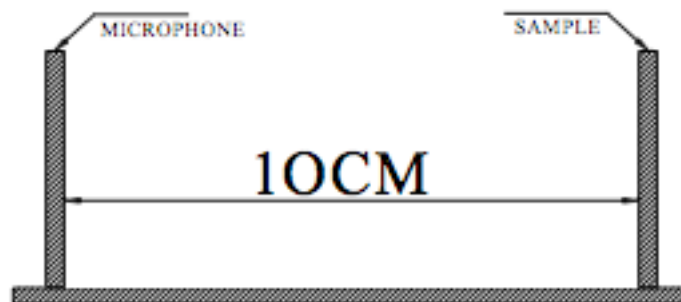
Temperature: $25 \pm 2^\circ\text{C}$ Humidity: 45-60%

Acoustic Characteristics

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below:



In the measuring test, buzzer is placed as follows:





7. Reliability

ITEMS	METHOD OF TEST AND MEASUREMENTS	PERFORMANCE
Coldness withstanding	After 98 hours of being exposed to -30°C environment, should be returned to normal environment for 2 hours, then re-proceed to test.	No abnormality shall exist
Hotness withstanding	After 98 hours of being exposed to +80°C environment, should be returned to normal environment for 2 hours, then re-proceed to test.	No abnormality shall exist
Humidity withstanding	After 98 hours of being exposed to 40°C 95%RH environment in actual operation, should be returned to normal environment for 2 hours, then re-proceed to test	No abnormality shall exist
Durability	Testing after 1,000 hours actual continuous operation. (at standard measurement conditions)	No abnormality shall exist
Drop withstanding	A natural drop from 75cm high down to the ground.	No abnormality shall exist
Vibration withstanding	Vibration of 2,000 cycles per minute, 2mm amplitude, applied in X, Y and Z directions for 30 minutes each.	No abnormality shall exist

