



DEVETECH ELECTRONICS CO. LTD

BUZZER
CUSTOMER: DACHS ELECTRONICA
P/N: DVZ-1407T2P40A

DESIGNED BY	
CHECKED BY	
APPROVED BY	

Address: 11/F.,F.Block, Hang Lok Building, 130Wing Lok St., Hong Kong.
Address: A3L1, Youpinyishu, Huanmei Rd., Dameisha, Yantian district, Shenzhen, China
Tel: (86) 13632770721 Email: info@devetechelectronics.com
Website: www.devetechelectronics.com



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1. Scope

This specification applies piezoelectric passive buzzer, DVZ-1407T2P40A.

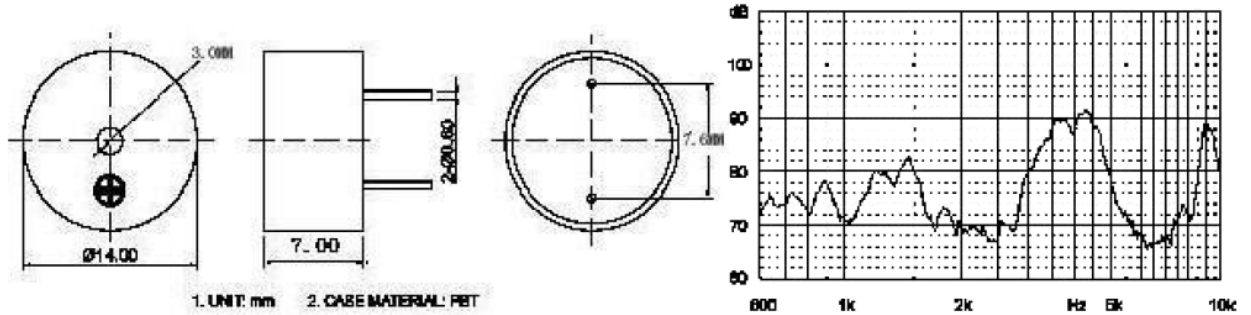
2. Specification

	Item	Unit	Specification	Condition
1	Allowable input Voltage range	Vp-p	Max. 30Vp-p	
2	Sound Pressure level	dB	Min.76	at 10cm at Rated Voltage
3	Rated current	mA	Max 30mA	
4	Frequency of output Signal	HZ	4000± 300	Square Wave
5	Operating Temp	°C	-20°C~60	
6	Storage Temp	°C	-30°C~70	
7	Dimension	mm	Φ14*H7.0	See appearance drawing
8	Weight	g	1.5	
9	Environmental Protection Regulation		RoHS	

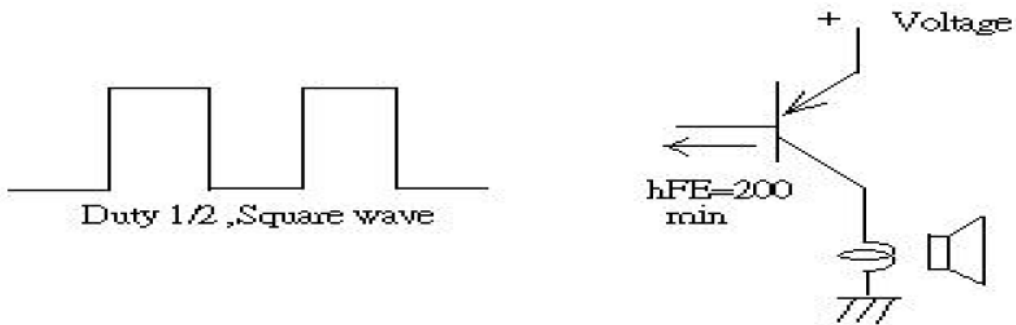
3. Appearance drawing

Model No: DVZ-1407T2P40A

Unit: mm TOL: ± 0.5



4. 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.

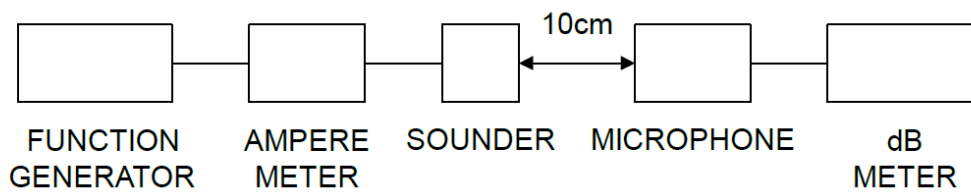
5. Testing method

Standard Measurement conditions

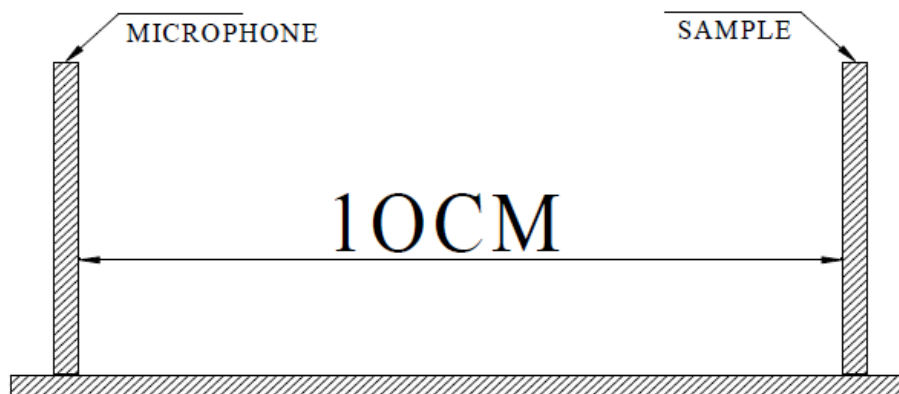
Temperature: $25 \pm 2^\circ\text{C}$ Humidity: 45-60%

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:



6. Reliability

Item	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

