DEVETECH ELECTRONICS CO. LTD

BUZZER
CUSTOMER: DACHS ELECTRONICA
P/N: DVZ-12095D05YA

DESIGNED BY	
CHECKED BY	
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Document revision history				
Change Nº	Date	Subject and reason	Version Nº	Responser
	23-05-2015			

1. Scope

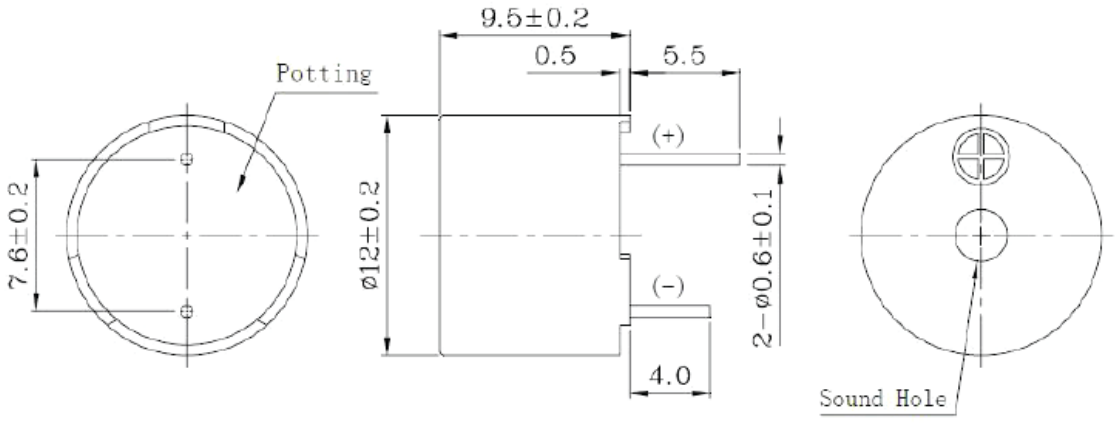
This specification applies buzzer diaphragm, DVZ-12095D05YA

2. Specification

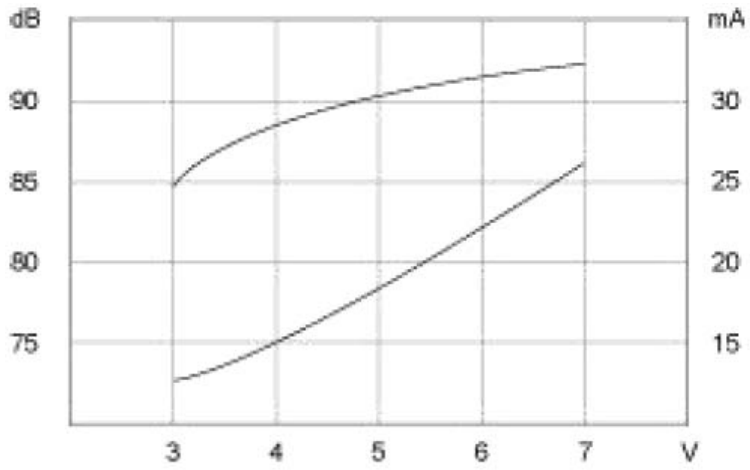
No.	Item	Unit	Specification	Condition
1	Operating voltage range	VDC	3.0~7.0	Response time 0.5 sec
2	Rated voltage*	VDC	5	Volts D.C.
3	Sound pressure level	dB	Min. 85	at 10cm at rated voltage
4	Rated current	mA	Max 30	
5	Frequency of output signal	Hz	2500±300	Square wave
6	Operating temperature	ºC	-30ºC~70	
7	Storage temperature	ºC	-40ºC~80	
8	Dimension	mm	Φ12*H9.5	See appearance drawing
9	Weight	g	1.6	
10	Environmental protection regulation		RoHS	

3. Appearance drawing

Model No: DVZ-12095D05YA Unit: mm

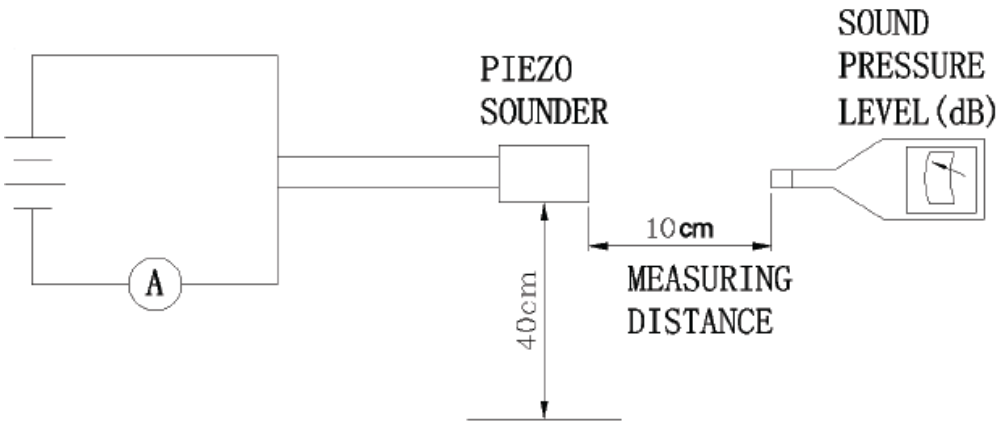


4. Frequency characteristics

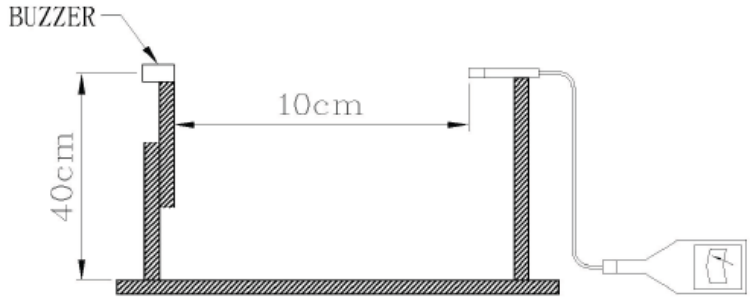


5. Acoustic characteristics

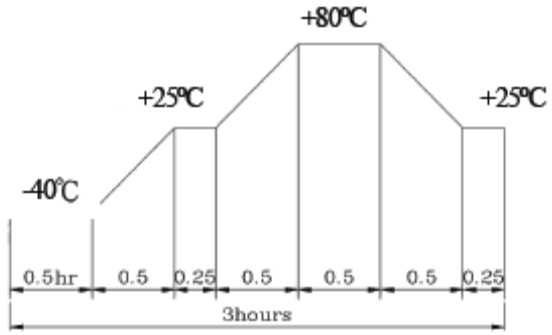
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below:



In the measuring test, buzzer is placed as follows:



6. Reliability

No	Item	Test condition and requirement
1	High temperature test (storage)	After being placed in a chamber with 70±2ºC for 48 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test ±10dB.
2	Low temperature test (storage)	After being placed in a chamber with -20±2ºC for 48 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test ±10dB.
3	Humidity test	After being placed in a chamber with 90-95% RH at 40±2ºC for 48 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test ±10dB.
4	Temperature cycle test	The part shall be subjected to 5 cycles. One cycle shall be consist of:  Allowable variation of SPL after test ±10dB
5	Vibration test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions of 1 hour. Allowable variation of SPL after test ±10dB
6	Solderability test	Lead terminals are immersed in rosin for 3 seconds and then immersed in solder bath of +260ºC for 3 seconds. 90% min. lead terminals shall be wet with solder (except the edge of terminals)
7	Terminal strength pulling test	The force of 5N is applied to each terminal in axial direction for 5 seconds. No visible damage and cutting off.

Test condition

Standard test condition:
a) Temperature: +5~+35ºC b) Humidity: 45-85% c) Pressure: 860-1060mbar

Judgment test condition:
a) Temperature: +25±2ºC b) Humidity: 60-70% c) Pressure: 860-1060mbar

NOTES