



DEVETECH ELECTRONICS CO. LTD

BUZZER
CUSTOMER: DACHS ELECTRONICA
P/N: DVZ-12075D05YA

DESIGNED BY	
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APPROVED BY	

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Document revision history				
Change N°	Date	Subject and reason	Version N°	Responser
	2017-02-17			



1. Scope

This specification applies electromagnetic buzzer, DVZ-12075D05YA

2. Specification

No.	Item	Unit	Specification	Condition
1	Operating voltage range	VDC	3.0~7.0	Response time 0.5sec
2	Rated voltage	VDC	5	Volts D.C.
3	Sound pressure level	dB	Min. 80	At 10cm at rated voltage
4	Rated current (mA)	mA	Max. 30	
5	Frequency of output signal	Hz	2400±400	Square wave
6	Operating temperature	°C	-30°C~75	
7	Storage temperature	°C	-40°C~80	
8	Dimension	mm	Φ12*7.5	See appearance drawing
9	Environmental protection regulation		RoHS	

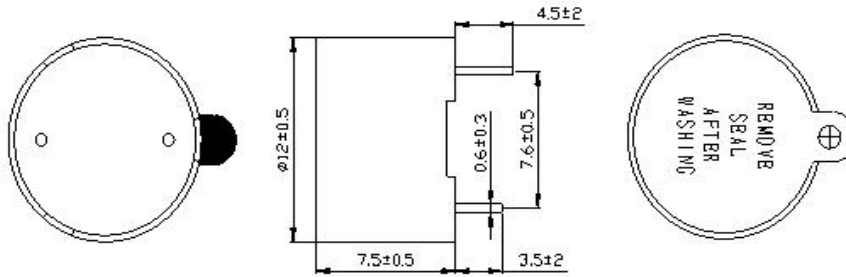
3. Soldering conditions

Buzzer soldering process	Soldering Parameter	
	Temperature (°)	Time (Sec.)
Reflow soldering	255±5	220~255°C 40s
Wave soldering	255±5	3~4s
Manual soldering	320~350	2~3s

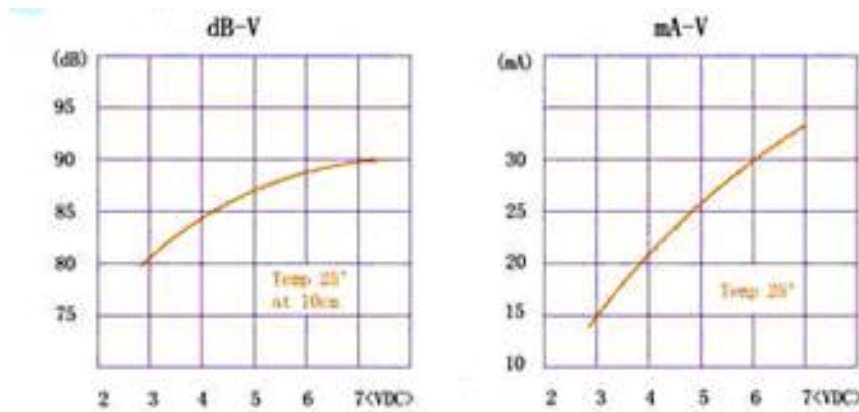
Remark: Instance Soldering Process

4. Appearance drawing

TOL_ ±0.5 Unit: mm

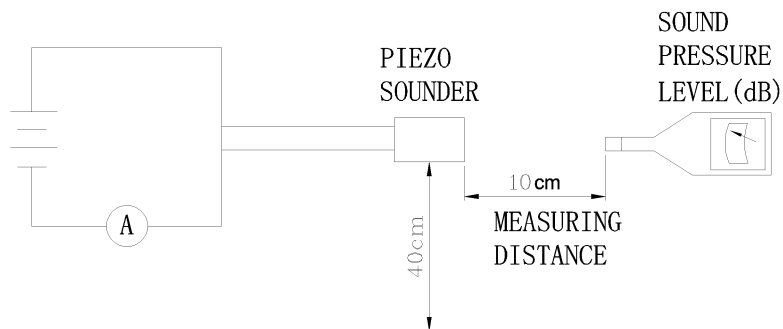


5. Frequency characteristics

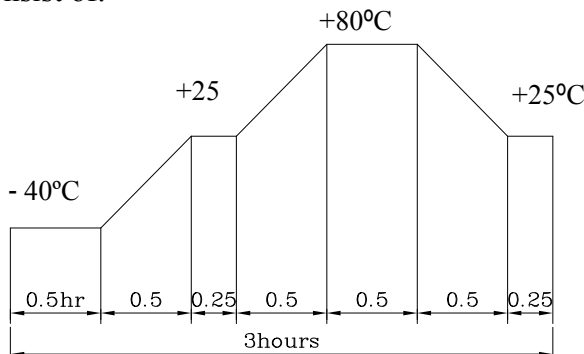


6. Acoustic characteristics

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



7. Reliability

No	Item	Test condition and requirement
1	High temperature test	After being placed in a chamber with $80\pm 2^{\circ}\text{C}$ for 48 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test $\pm 10\text{dB}$. Current the capacitance variation must be within 10%
2	Low temperature test	After being placed in a chamber with $-40\pm 2^{\circ}\text{C}$ for 48 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test $\pm 10\text{dB}$. Current the capacitance variation must be within 10%
3	Humidity test	After being placed in a chamber with 80-85% RH at $40\pm 2^{\circ}\text{C}$ for 48 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test $\pm 10\text{dB}$. Other performance must be within 10%
4	Temperature cycle test	<p>The part shall be subjected to 5 cycles. One cycle shall be consist of:</p>  <p>And then being placed in a normal condition for 2 hours. Allowable variation of SPL after test $\pm 10\text{dB}$. Other performance must be within 10%</p>
5	Solderability	Lead terminals are immersed in rosin for 3 seconds and then immersed in solder bath of $+330\pm 5^{\circ}\text{C}$ for 3 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).
6	Operating life test	48 hours continuous operation at $+75^{\circ}\text{C}$ with rated voltage applied and then being placed in normal condition for 2hours. Allowable variation of SPL after test: $\pm 10\text{dB}$. Other performance must be within 10%
7	Drop test	Monomer from 75 cm high, X, Y, Z, three directions, the 3 times, naturally fall on the ground Allowable variation of SPL after test: $\pm 10\text{dB}$. Other performance must be within 10%

Test condition

Standard test condition:

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

Judgment test condition:

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



NOTES
