

THIS SPECIFICATION APPLIES TO THE PIEZO BUZZER

SPECIFICATION

Test condition: TEMP=+25±2 ℃ Related humidity=65±5%

item	unit	specification	condition
rated voltage	VDC	12.0	
operating volt	VDC	6.0 ~ 15.0	
current consumption	mA	Max. 30	At 12 V DC, square wave, 3.5 KHz
sound output	dBA	95	At 10 cm, 12V DC, squave wave, 3.5 KHz
resonant frequency	Hz	3400	
operating temp	°C	-20 ~ +70	
storage temp	°C	-30 ~ +80	
dimension	mm	φ 23.5 x 9.5	See attached drawing
weight	gram	3.0	
material		PPO (Black)	
terminal		Pin (Plating SN)	See attached drawing
environmental		RoHS	
protection regulation			

ENVIRONMENT TEST

item	test condition	evaluation standard
 high temp. test	After being placed in a chamber at +70°C for 96 hours.	Being placed for 4 hours at +25°C, buzzer will be measured.
low temp. test	After being placed in a chamber at -30°C for 96 hours.	The value of oscillation, frequency / current consumption would be in $\pm 10\%$ compared with
 Humidity test	After being placed in a chamber at +70°C, and 90±5% relative humidity for 96hours	initial one. The SPL would be in ±10dB compared with initial one.
 Temp. cycle test	The part will be subjected to 5 cycles.	

+70°C+' +25°C -30°C 0.5hr 0.25 0.5hr 0.5hr 0.5hr 0.25 hr 3hours+'

One cycle shall be consist of:



RELIABILITY TEST

item	test conditions	evaluation standard
operating life test	CONTINUOUS LIFE TEST 48hours of continuous operation at +55°C with maximum rated voltage applied. INTERMITTENT LIFE TEST A duty cycle of 1 minute on, 1 minutes off, a minimum of 1000 times at +25±2°C and maximum rated voltage applied	After the test the part will meet specifications without any degradation in appearance and performance except SPL, after 4 hours at +25°C. The SPL would be in ±10dBA compared with initial one.

TEST CONDITION

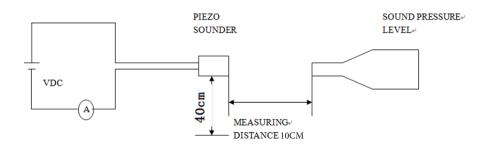
Standard Test Condition: a)Temperature: +5~+35°C b)Humidity:45~85% c)Pressure: 860~1060mbar

MECHANICAL CHARACTERISTICS

item	test conditions	evaluation standard
solderability	Lead terminal are immersed in rosin for 5 seconds and then immersed in solder bath of +260±5°C for 3±1 seconds.	90% min. lead terminals will be wet with solder (except the edge of the terminal)
soldering heat resistance	Lead terminal are immersed in soldering bath of +245±5°C for 3±1 seconds	No interference in operation.
terminal mechanical strength	The force 10 seconds of 9.8N is applied to each terminal in axial direction.	No damage and cutting off.
vibration	Buzzer will be measured after being applied vibration of amplitude of 1.5mm with 10Hz to 55Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours	The value of oscillation frequency current consumption would be in $\pm 10\%$ compared with initial one.
 drop test	The part only will be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes(X,Y,Z). A total of 9 times.	The SPL would be in±10dB compared with initial one

MEASURING METHOD

S.P.L Measuring Circuit Input Signal: 12Vp-p , 3.5KHz



Mic: RION S.P.L meter UC30 or equivalent S.G: Hewlett Packard 33120A Function Generator or equivalent

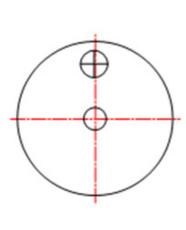


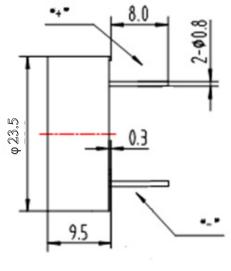
MODEL: PB-2410-2 PRODUCT: Piezo Buzzer EDITION: A/2017

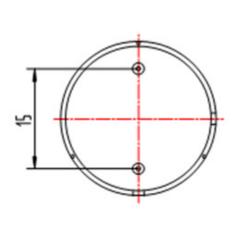
Soberton Inc.

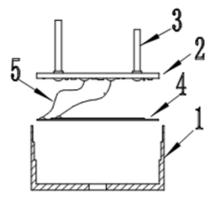
APPEARANCE DRAWING

Tolerance:±0.5 (unit: mm)



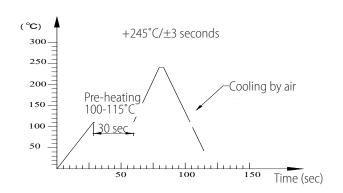






no	item	material	quantity
1	Case	PPO	1
2	РСВ	Ероху	1
3	Pin	Copper	2
4	Piezo	Brass + Ceramic	1
5	Wire	Copper	2

RECOMMENDED WAVE SOLDERING TEMPERATURE CURVE





MODEL: PB-2410-2 PRODUCT: Piezo Buzzer EDITION: A/2017



PACKING

Foam tray

Plastic bag

Carton box

