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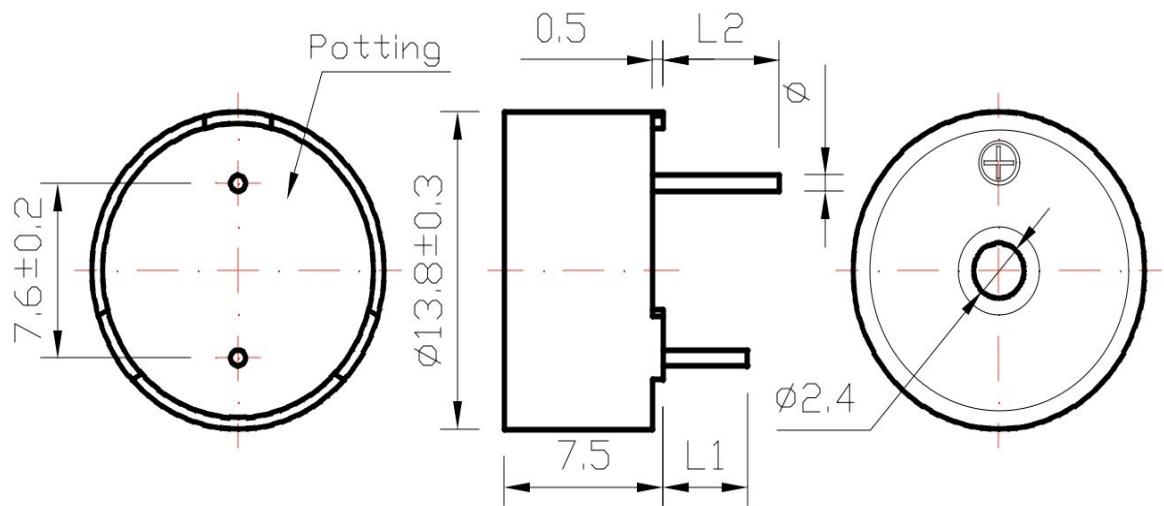
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Specifications

Item	Unit	Specification
Resonant Frequency	Hz	4000±500
Operating Voltage	VDC	3 ~ 9
Rated Voltage	VDC	5
Rated Current	mA	Max. 6 at 4.0KHz 50%, duty cycle, square wave, 5VDC
Sound Output	dB	Min. 80 at 4.0KHz 50%, duty cycle, square wave, 5VDC
Tone		Continuous
Operating Temperature	°C	-20 ~ +70
Storage Temperature	°C	-30 ~ +80
Terminal		Pin Type
Pin Length	mm	L1=4.0±0.5, L2=5.5±0.5, ø=0.6±0.1mm
Dimensions	mm	Φ13.8 × H7.5
Housing Material		Black PBT
Net Weight	gram	Approx. 1.2g
Environmental Protection Regulation		RoHS 2.0

Dimensions

Unit: mm
Tolerance: ±0.5mm, except where specified



Housing Material: Black PBT



soberton inc.

PIEZOELECTRIC
CERAMIC
ELEMENT

Acoustic Product Specification

Product Number: PST-1408T



Release | Revision: A/2026

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Reliability Test

After any of following tests the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall meet the specifications and shall not deviate more than -10dB from the initial value.

Standard Temperature Life Test

The part shall be subjected to 96 hours at 25±10°C.

Input rated voltage: 5VDC

Resonant frequency: 4000Hz, 50% duty cycle, square wave

High Temperature Test

The part shall be capable of withstanding a storage temperature of +85°C for 96 hours.

Low Temperature Test

The part shall be capable of withstanding a storage temperature of -40°C for 96 hours.

Humidity Test

Temperature +40°C±3°C

Relative Humidity 90% ~ 95%

Duration 48 hours and exposure to room temperature for 6 hours

Temperature Shock Test

Per cycle

70°C/1 hour → 25°C/3 hours → -30°C/1 hour → 25°C/3 hours

Total cycle 10 cycles

Drop Test

Standard Packaging from 1.2m

Drop on hardwood or board of 5cm thick, three sides, six plain

Vibration Test

Vibration 1000 cycles /minute

Amplitude 1.5mm

Duration 1 hour in each 3 axes

Note

Please make sure that any foreign materials (e.g. magnetic powder, washing solvent, flux, corrosive gas) do not enter this product in your production processes. Contamination may result in a loss of some or all audio output.



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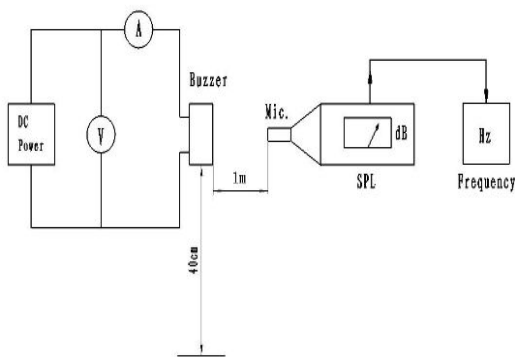
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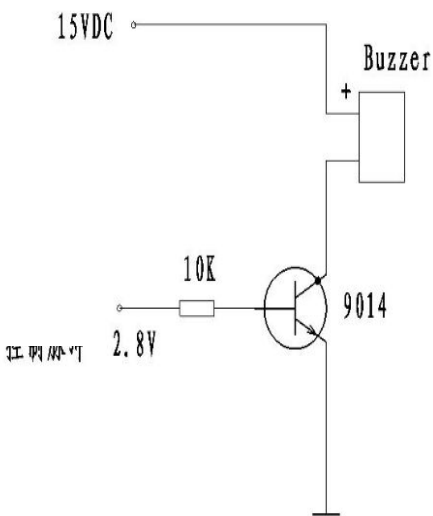
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Electrical and Acoustical Measuring Condition

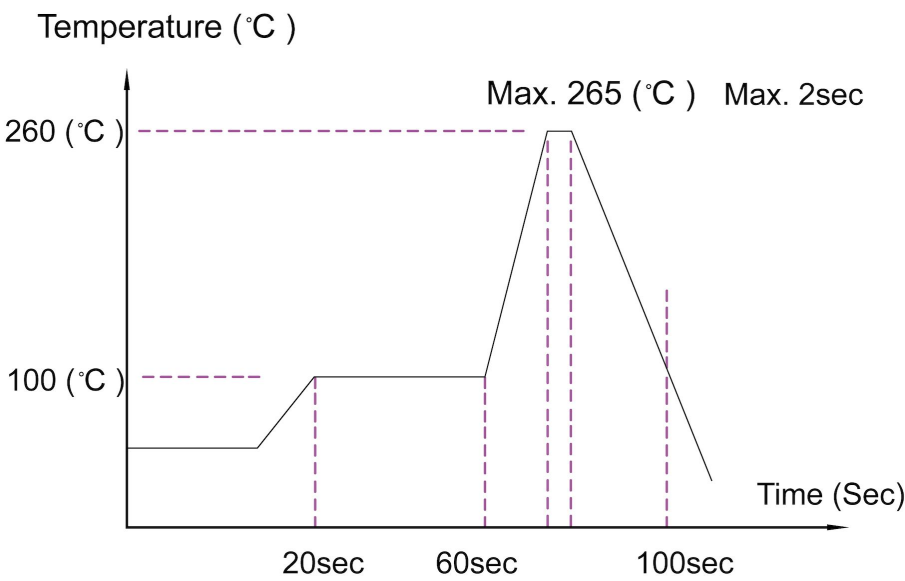
3.1 Recommended Setting



3.2 Recommended Test Circuit

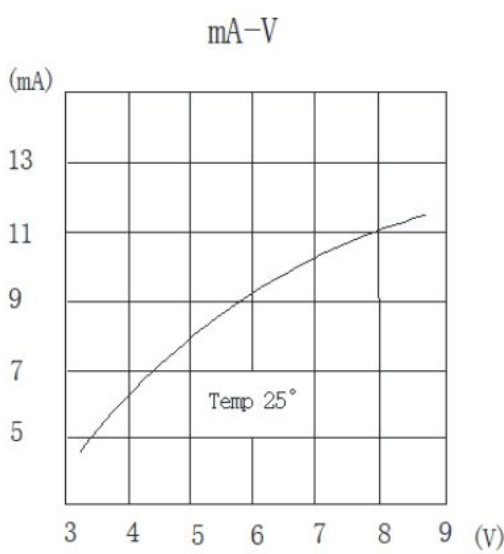
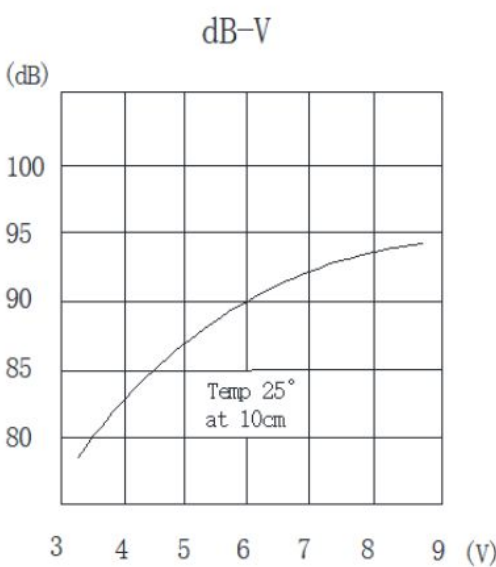


Recommended Wave Soldering Temperature



Sound Voltage Level

Current Consumption Characteristics





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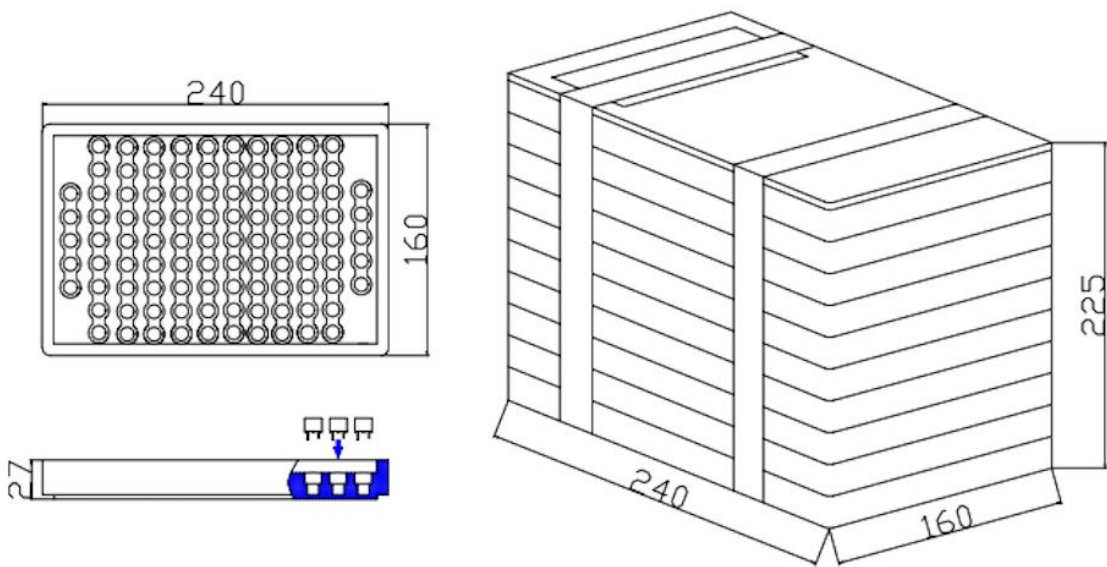
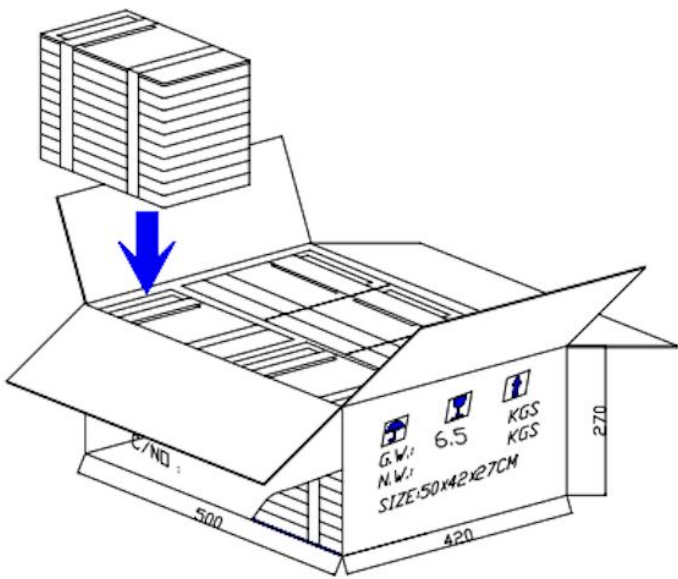


Fig.1



Package Item	Package Qty	Carton Size	
Tray	100 pcs	240x160x H24mm	Fig 1
Bundle	1000 pcs	240x160x H225mm	Fig.1
Carton	5000 pcs	500x420x H270mm	Fig.2