



soberton inc.

PIEZOELECTRIC
CERAMIC
ELEMENT

Acoustic Product Specification

Product Number: PT-1404T



Release | Revision: A/2026

CONTENTS

This document contains the technical specifications for the piezoelectric ceramic element.

Page 1
Specifications

Dimensions

Page 2
Reliability Test

Page 3
Frequency Response

Recommended Wave Soldering Temperature

Electrical And Acoustical Measuring Condition

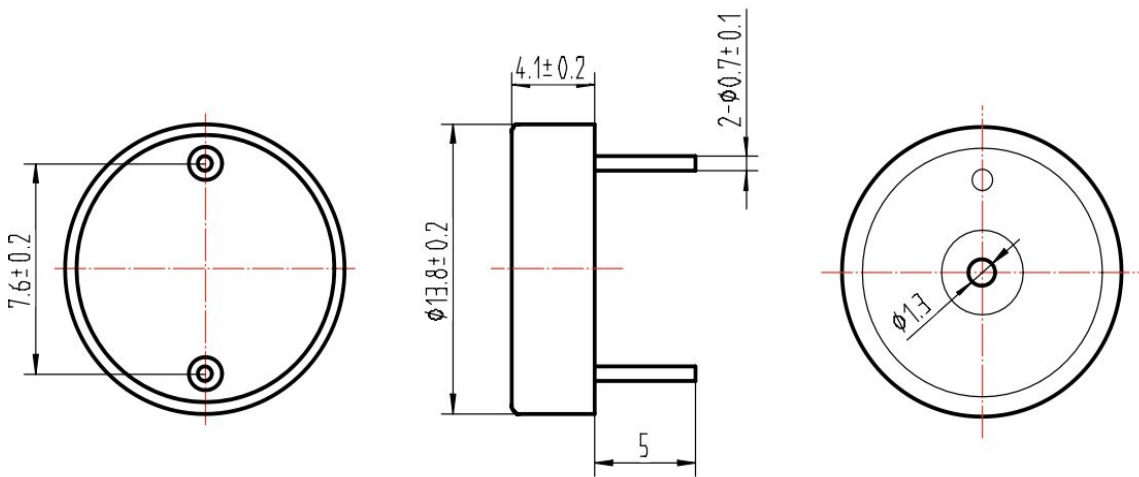
Page 4
Packing

Specifications

Item	Unit	Specification
Resonant Frequency	Hz	4000±500
Operating Voltage	Vp-p	1 ~ 25
Rated Voltage	Vp-p	5
Rated Current	mA	Max. 5 at 4.0KHz 50%, duty cycle, square wave, 5Vp-p
Sound Output	dB	Min. 80 at 4.0KHz 50%, duty cycle, square wave, 5Vp-p
Capacitance	pF	15000±30% at 1KHz
Operating Temperature	°C	-20 ~ +70
Storage Temperature	°C	-30 ~ +80
Terminal	Pin Type	
Pin Length	mm	L1=5.0±0.2, ø0.7±0.1
Dimensions	mm	Φ13.8xH4.1
Housing Material	Black Noryl	
Net Weight	gram	Approx. 0.5
Environmental Protection Regulation	RoHS 2.0	

Dimensions

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



Housing Material: Black Noryl



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Page 1
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Dimensions

Page 2
Reliability Test

Page 3
Frequency Response

Recommended Wave Soldering
Temperature

Electrical And Acoustical
Measuring Condition

Page 4
Packing

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: 5 Vp-p

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

High Temperature Test

The part shall be capable of withstanding a storage temperature of +70°C for 96 hours.

Low Temperature Test

The part shall be capable of withstanding a storage temperature of -20°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 → -20°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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CONTENTS

This document contains the technical specifications for the piezoelectric ceramic element.

Page 1
Specifications

Dimensions

Page 2
Reliability Test

Page 3
Frequency Response

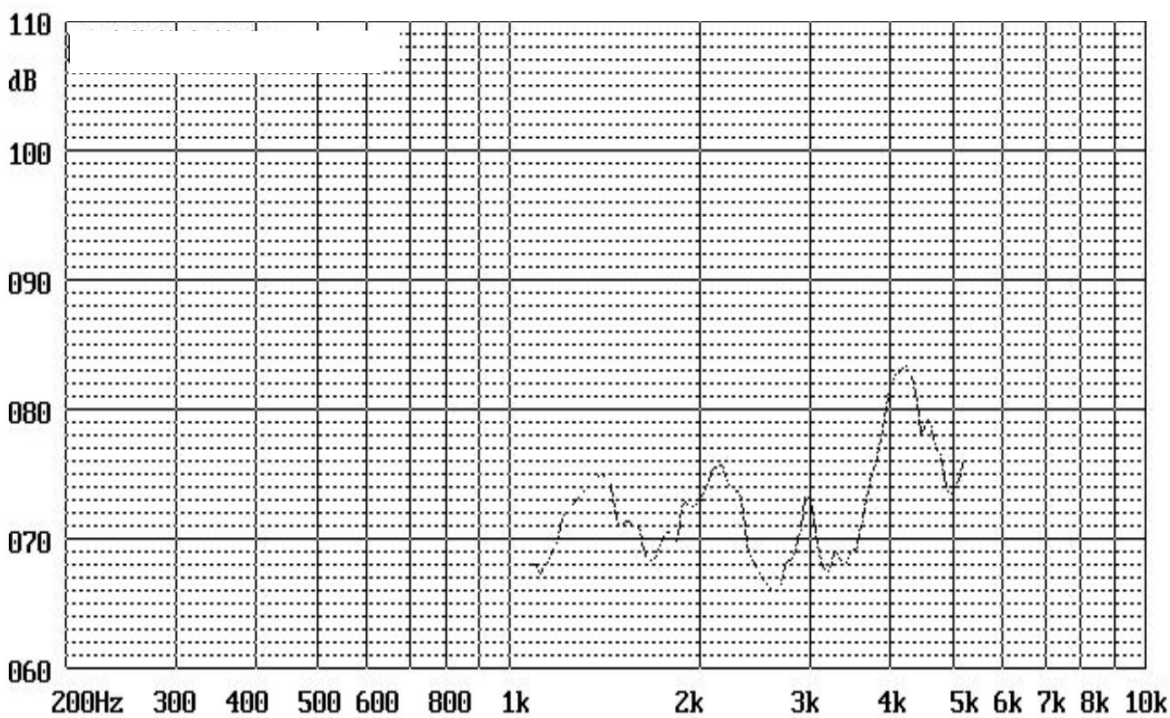
Recommended Wave Soldering
Temperature

Electrical And Acoustical
Measuring Condition

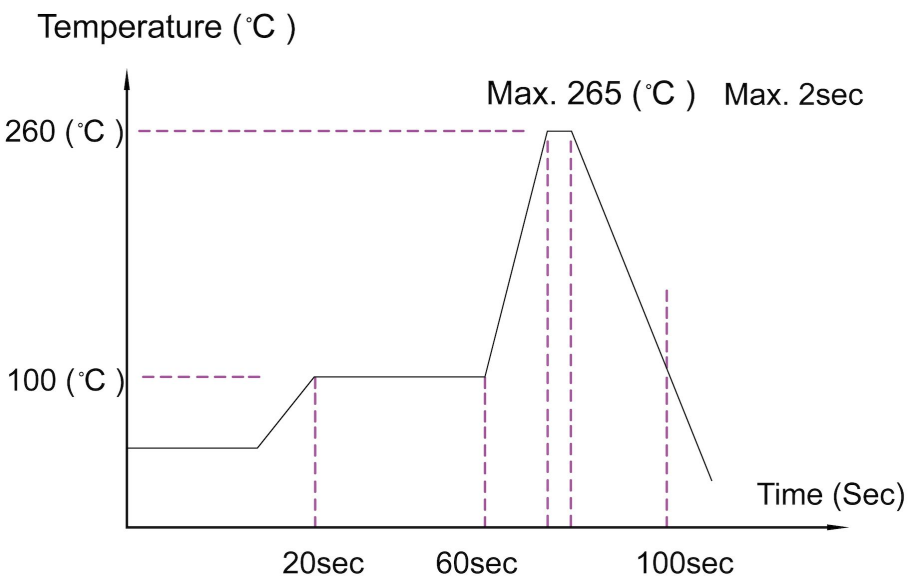
Page 4
Packing

Frequency Response

5Vp-p, 50% duty cycle, square wave, at 10cm

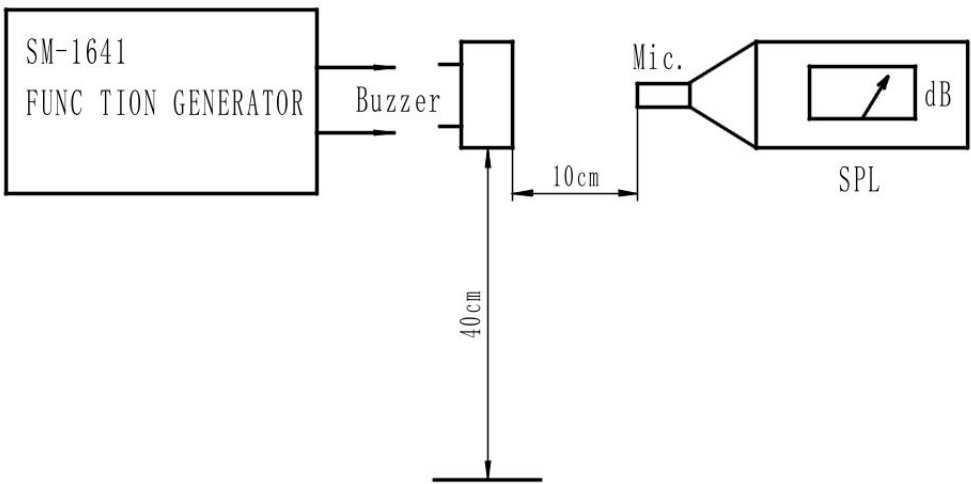


Recommended Wave Soldering Temperature



Electrical And Acoustical Measuring Condition

Recommended Setting





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PIEZOELECTRIC CERAMIC ELEMENT

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CONTENTS

This document contains the technical specifications for the piezoelectric ceramic element.

Page 1
Specifications

Dimensions

Page 2
Reliability Test

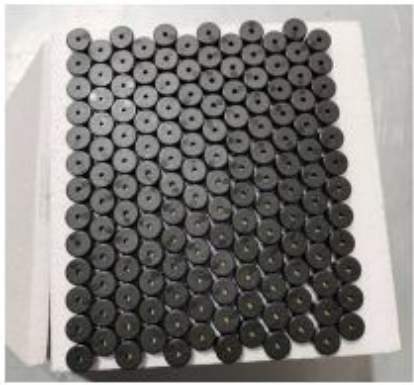
Page 3
Frequency Response

Recommended Wave Soldering Temperature

Electrical And Acoustical Measuring Condition

Page 4
Packing

Packing



150pcs



150pcsx15=2250pcs



2250pcs



2250pcsx4= 9000pcs

Package Item	Package Qty
Tray	150 pcs
Bundle	2250 pcs
Carton	4 Bundles
Carton	9000 pcs