



soberton inc.

PIEZOELECTRIC
CERAMIC
ELEMENT

Acoustic Product Specification

Product Number: PT-1707TF



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

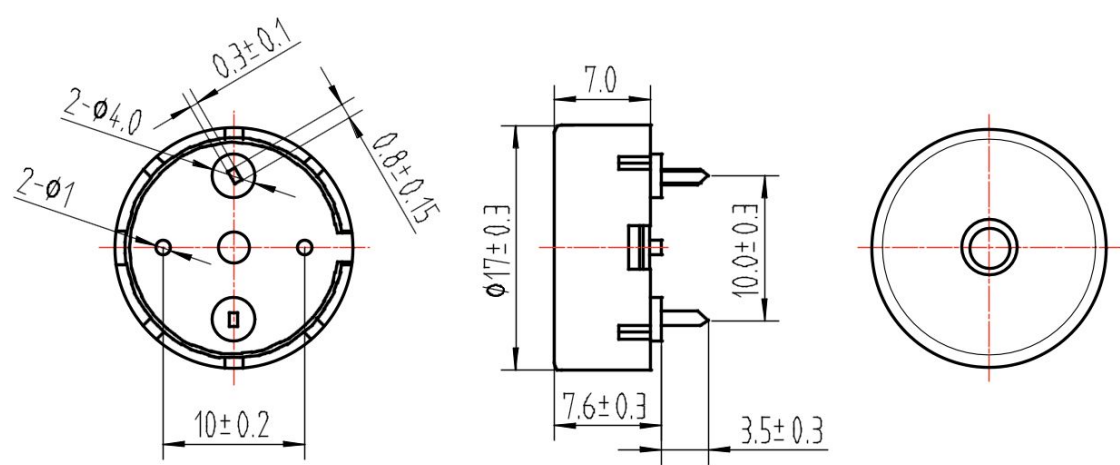
Page 4
Packing

Specifications

Item	Unit	Specification
Resonant Frequency	Hz	2000±500
Operating Voltage	Vp-p	1 ~ 25
Rated Voltage	Vp-p	5
Rated Current	mA	Max. 3 at 2.0KHz 50%, duty cycle, square wave, 3Vp-p
Sound Output	dB	Min. 70 at 2.0KHz 50%, duty cycle, square wave, 3Vp-p
Capacitance	pF	25000±30% at 120Hz
Operating Temperature	°C	-20 ~ +85
Storage Temperature	°C	-30 ~ +85
Terminal	Pin Type	
Pin Length	mm	L1=3.5±0.5, (Flat Pins)
Dimensions	mm	Φ17.0×H7.0
Housing Material	Black PBT	
Net Weight	gram	Approx. 1.5
Environmental Protection Regulation	RoHS 2.0	

Dimensions

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



Housing Material: Black PBT



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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: 3 Vp-p

Resonant frequency: 2000Hz, 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 -30°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
60°C/1 hour → 25°C/3 hours → -20°C/1 hour → 25°C/3 hours

Total cycle 10 cycles

Drop Test

Standard Packaging from 0.75m

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

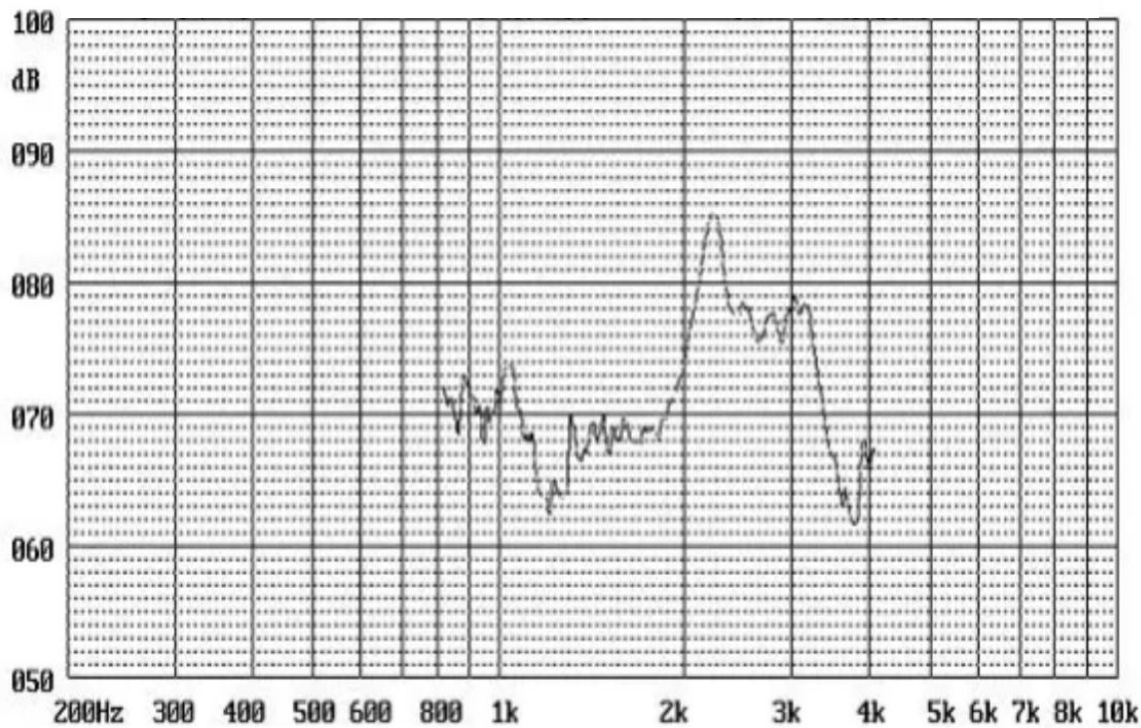
Recommended Wave Soldering
Temperature

Electrical And Acoustical
Measuring Condition

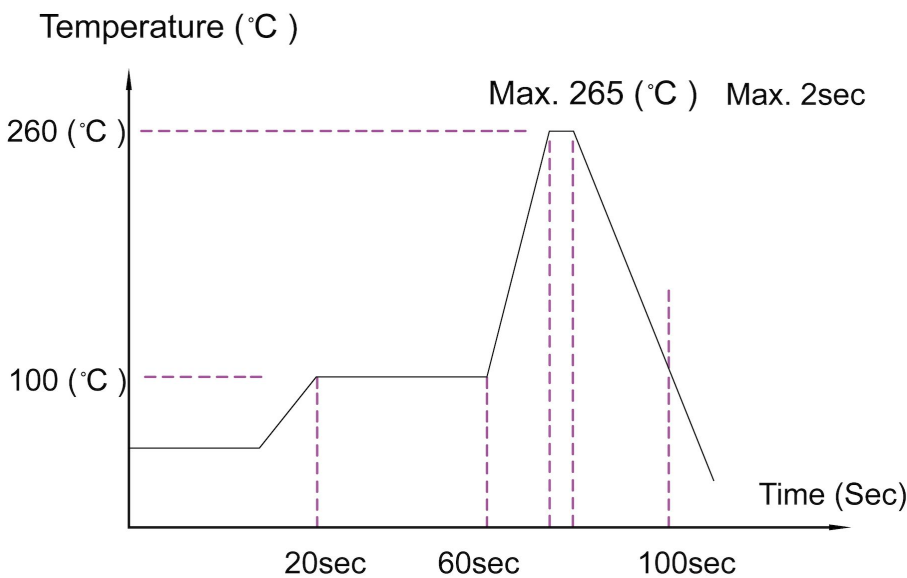
Page 4
Packing

Frequency Response

3Vp-p, 50% duty cycle, square wave, at 10cm

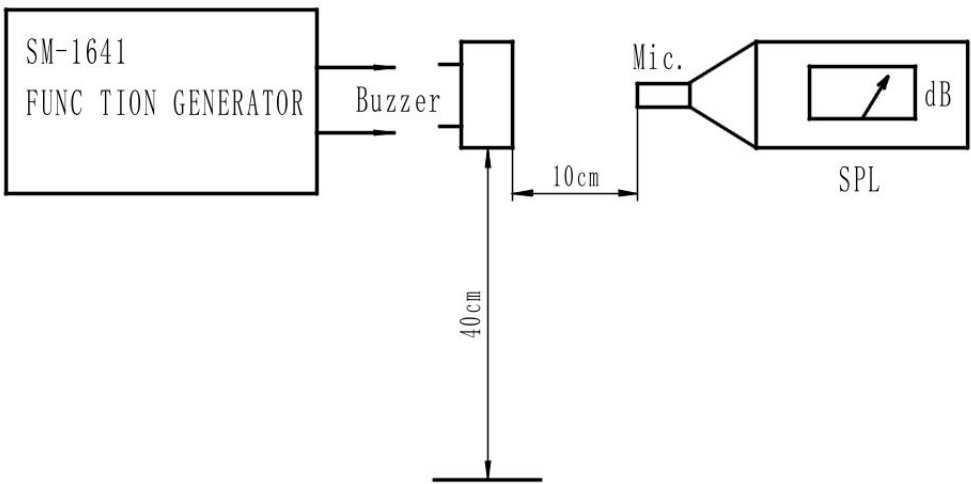


Recommended Wave Soldering Temperature



Electrical And Acoustical Measuring Condition

Recommended Setting





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PIEZOELECTRIC CERAMIC ELEMENT

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CONTENTS

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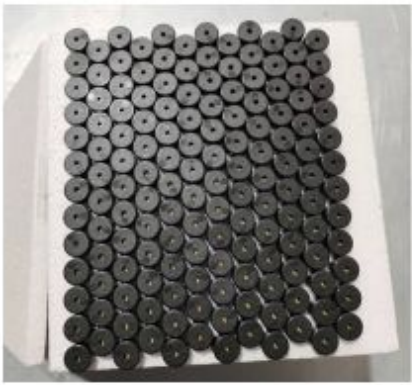
Page 1
Specifications
Dimensions

Page 2
Reliability Test

Page 3
Frequency Response
Recommended Wave Soldering Temperature
Electrical And Acoustical Measuring Condition

Page 4
Packing

Packing



100pcs



100pcsx10=1000pcs



4000pcs



1000pcsx4 = 4000pcs

Package Item	Package Qty
Tray	100 pcs
Bundle	1000 pcs
Carton	4 Bundles
Carton	4000 pcs