

soberton inc.

PIEZOELECTRIC CERAMIC ELEMENT

Acoustic Product Specification

Product Number: PT-1607TF

Release | Revision: A/2026

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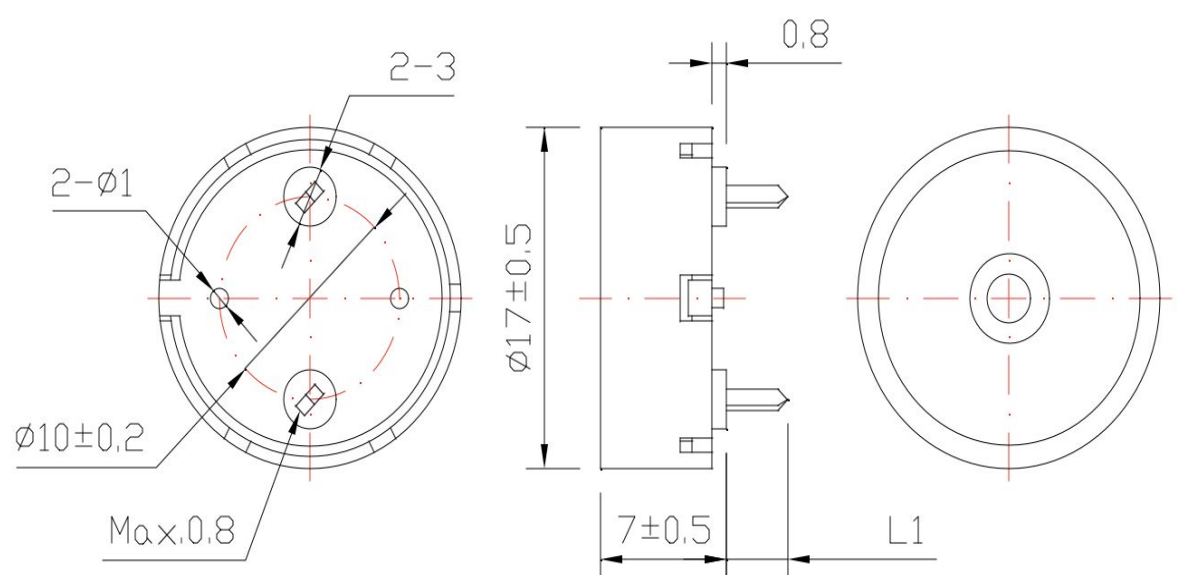
Specifications

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, 5 Vp-p
Sound Output	dB	Min. 85 at 4.0KHz 50%, duty cycle, square wave, 5 Vp-p
Capacitance	pF	15000±30% at 120Hz
Operating Temperature	°C	-20 ~ +70
Storage Temperature	°C	-30 ~ +80
Terminal		Pin Type
Pin Length	mm	L1=3.4±0.5, Φ=0.6±0.1 (Flat Pins)
Dimensions	mm	Φ16.8×H7.0
Housing Material		Black PBT
Net Weight	gram	Approx. 0.9
Environmental Protection Regulation		RoHS 2.0

Dimensions

Unit: mm

Tolerance: $\pm 0.5\text{mm}$, except where specified



Housing Material: Black PBT



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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: 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 +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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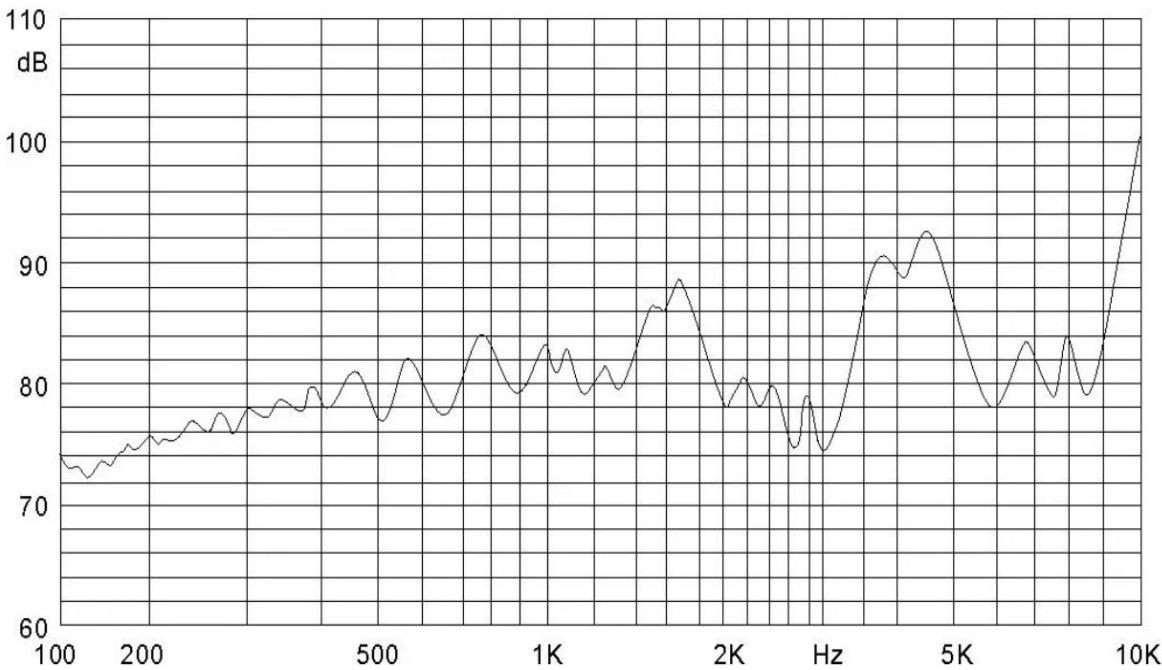
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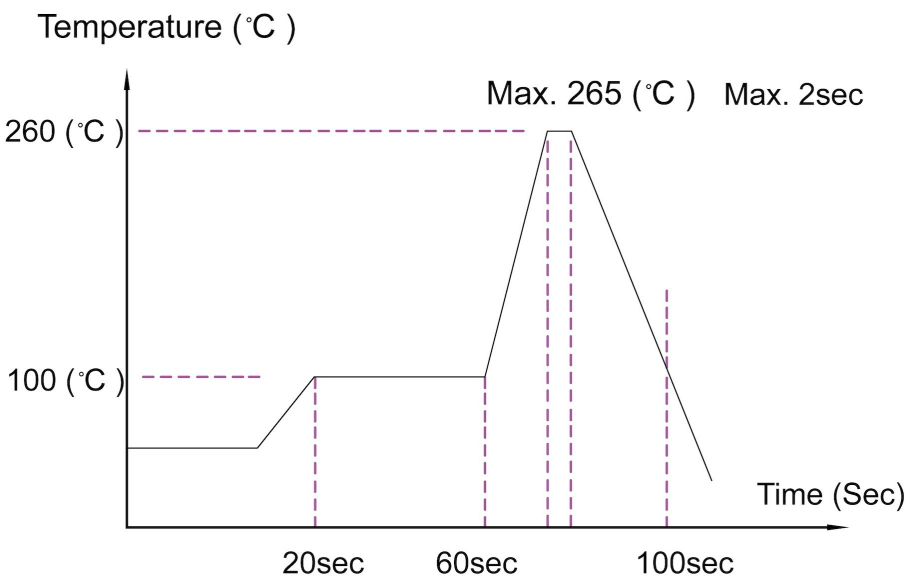
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Frequency Response

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

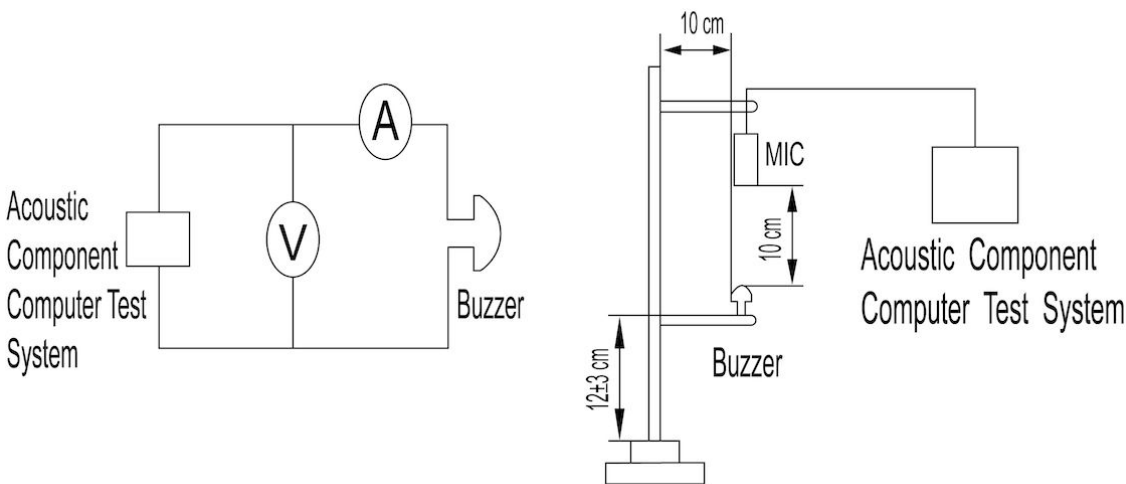


Recommended Wave Soldering Temperature



Electrical And Acoustical Measuring Condition

Recommended Setting





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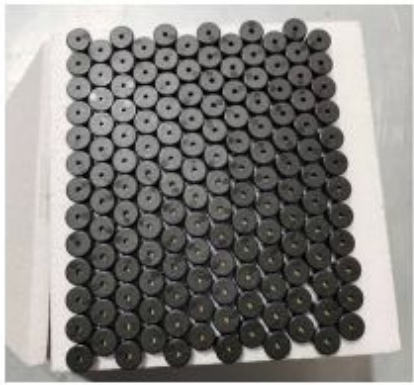
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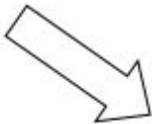
100pcs



100pcsx10=1000pcs



1000pcs



1000pcsx4 = 4000pcs

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