

Piezo-THT-Buzzer without oscillator**Electrical and Acoustical Parameter**

Rated Voltage	3 Vpp
Max Input Voltage	30 Vpp
Current Consumption*	≤3 mA
Capacitance	15000 ±30% pF at 100 Hz
Sound Pressure Level*	≥80 dB(A) at 10 cm
Resonance Frequency	4000 ±500 Hz

Remark

*Applying rated voltage (Resonant frequency, Square wave 50% duty cycle)

Mechanical, Environmental Parameter

Contact / Wire	Pin Ø0.8 mm
Contact / Wire Plating	Cu + Sn
Operating Temperature (°C)	-40 to +85 °C
Storage Temperature (°C)	-40 to +90 °C
Housing Material	PBT
Housing Colour	Black
Component Weight (g)	2.3 g
Remark	

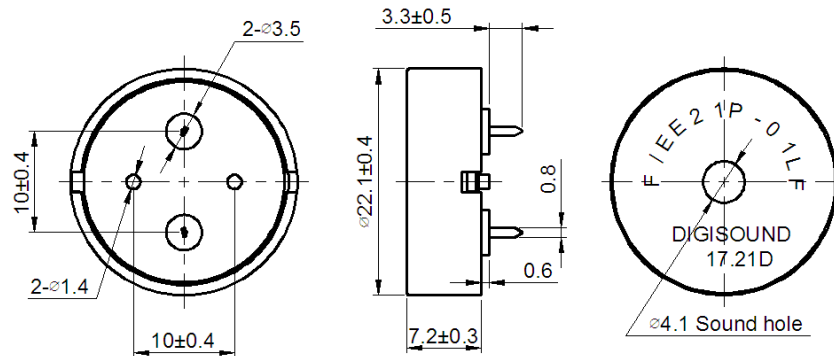


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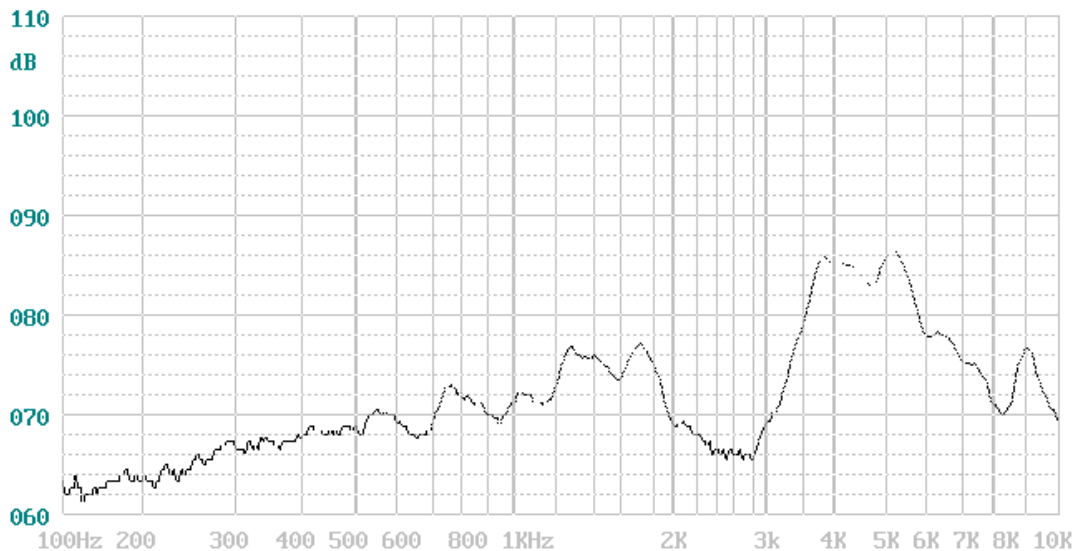
Drawing of Component and PCB Footprint

Unit: mm

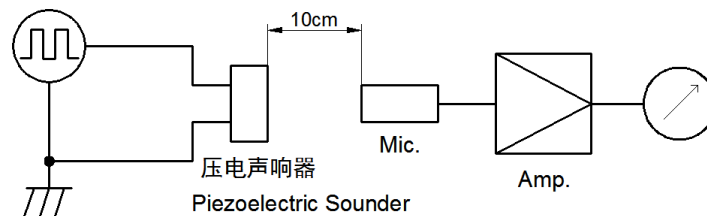
Dimensions without tolerance ± 0.5 mm



Frequency Response



Test Method



MIC: ND10 普通声级计或等同品
MIC: ND10 Sound Meter or equivalent

信号发生器: DF1641D或等同品
Signal Generator: DF1641D or equivalent

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Reliability Test

Environment Test:

No.	Item	Test condition	Evaluation standard
1	High temp. test	+90 ±2 °C, 96 h	After being placed for 2 to 4 hours at room temp, the product shall meet specifications, except the SPL should be in ±10 dB(A) compared with initial one.
2	Low temp. test	-40 ±2 °C, 96 h	
3	Humidity test	+40 ±2 °C, 93 (+2/-3)% RH for 96 h	
4	Temp. cycle test	-40 ±2 °C, 30 minutes +20 ±2 °C, 15 minutes +90 ±2 °C, 30 minutes +20 ±2 °C, 15 minutes 5 cycles	

Mechanical Characteristics:

No.	Item	Test condition	Evaluation standard
1	Solder ability	Pin terminals are immersed in rosin for 5 seconds and then immersed in solder bath of 270 ±5 °C for 3 ±1 sec.	90% min. lead terminals shall be wet with solder.(Except the edge of terminal)
2	Soldering heat resistance	Pin terminals are immersed up to 1.5 mm from part's body in solder bath of 260 ±5 °C for 10 ±1 sec. Refer to GB2423.28.	No interference in operation
3	Vibration	1.5 mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 h.	After the test part shall meet specifications, except the SPL should be in ±10 dB(A) compared with initial one.
4	Drop test	The part only shall be dropped from the height of 70cm onto 10mm thick wooden board each 3 times in 3 axial directions(x, y & z) (a total of 9 times).	

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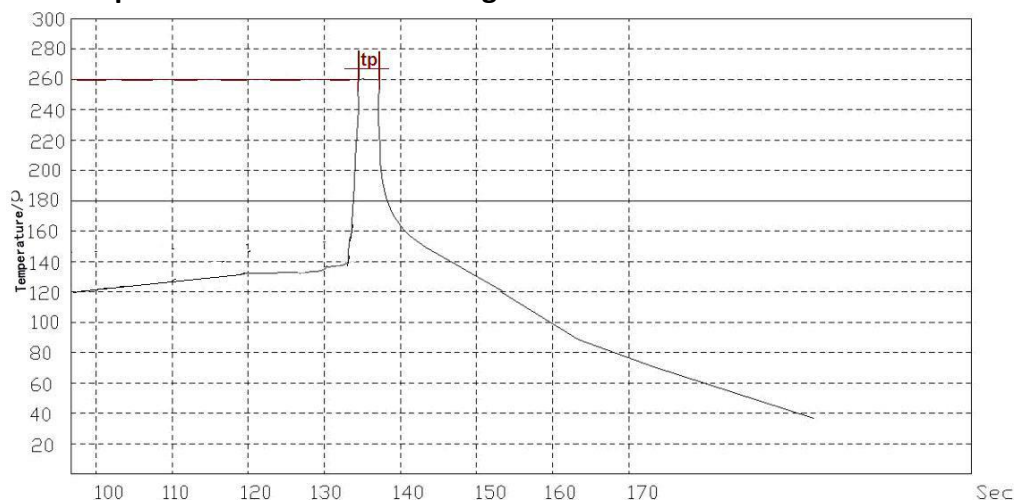
Solder Method

No.	Item	Test condition	Evaluation standard
1	Hand soldering	Solder Temp.: 350±10 °C; Times: Max. 3 seconds.	All specifications must be satisfied after the test.
2	Wave Soldering	Preheat 1 : 120 °C; 130 °C Preheat 2 : 130 °C; 140 °C Preheat 3 : 140 °C; 150 °C Tin oven Temp(Tp)./Times : 260±5 °C /3 s Transmit speed : 1200 mm/min Refer to Recommended Temp. Profile for Wave-soldering Oven	

Wave-soldering Oven:

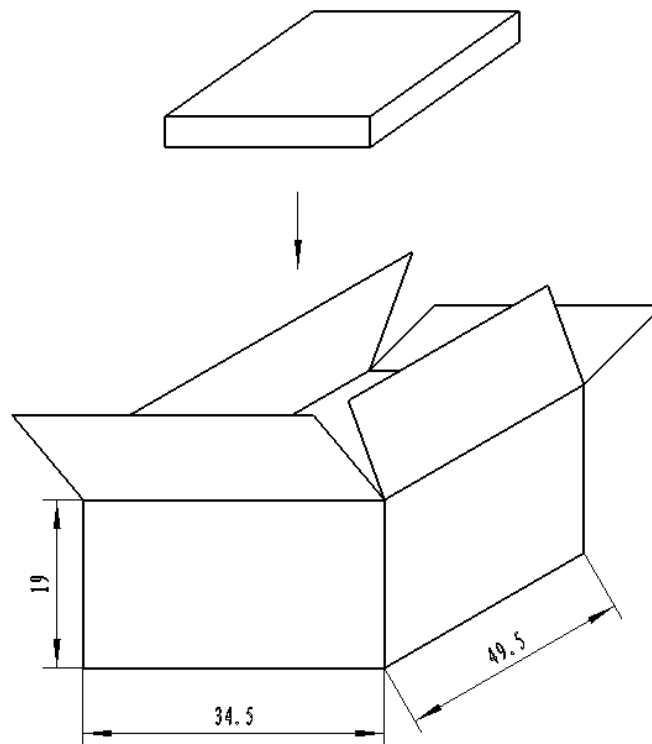


Recommended Temp. Profile for Wave-soldering Oven



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Packaging Information



1. 100 PCS per box
2. Total 20 boxes per carton
3. Total 2000 PCS carton
4. Volume 49.5×34.5×19 cm

Revision Table

Index Nr.	Reason - Procedure Change description	Date	Name	Comments
01	Change: Housing material PPO→PBT, Dimensions, Pin length and size, Reliability test, Packaging, Add: Color, Pin material, Soldering Method	13.01.2020	TF	

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