

	Part name	SMD magnetic buzzers Passive	Date	2026-06-02
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Technical terms:

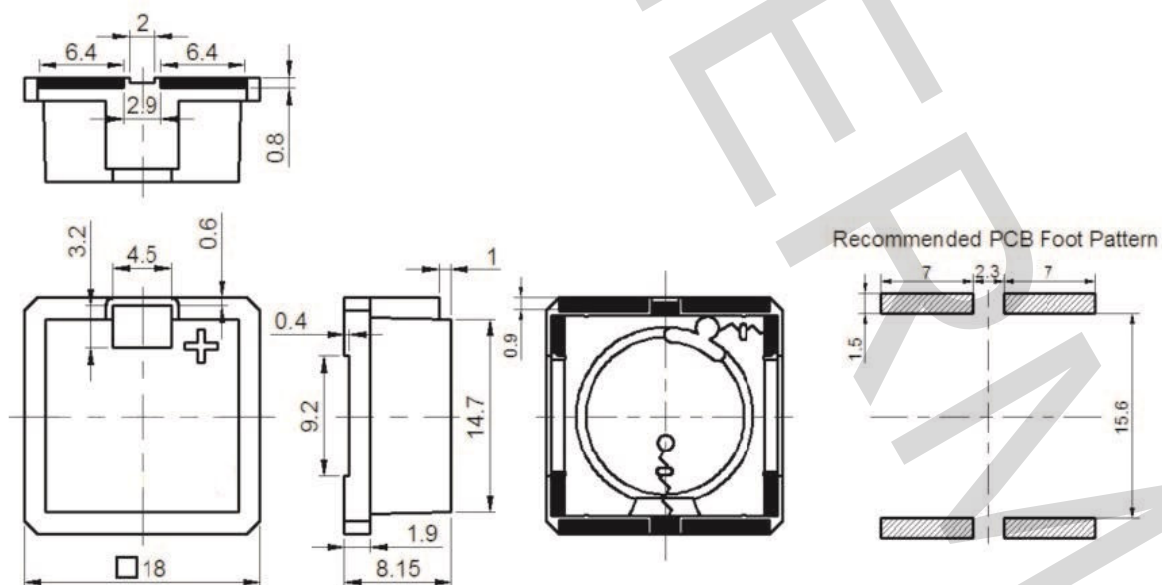
No.	Technical terms	Value
1	Rated Voltage(Vp-p)	12
2	Max Input Voltage(V _{0-p})	±12.5
3	*Rated Current(mA)	≤15
4	Capacitance at 100Hz (pF)	35000±30%
5	*Sound Output at 10cm(dB)	≥90
		100 (typ.)
6	Resonance Frequency (KHz)	2.0±0.5
7	Operating Temperature(°C)	-40 ~ +105
8	Storage Temperature(°C)	-40 ~ +105
9	Weight (g)	1.1
10	Housing Material	LCP
11	RoHS	Yes

*Applying rated voltage (at 2.0KHz, 1/2 duty , square wave)

Test Basic State: Temp(20±2°C),Humidity(40~70%RH),Air pressure(860~1060hPa).

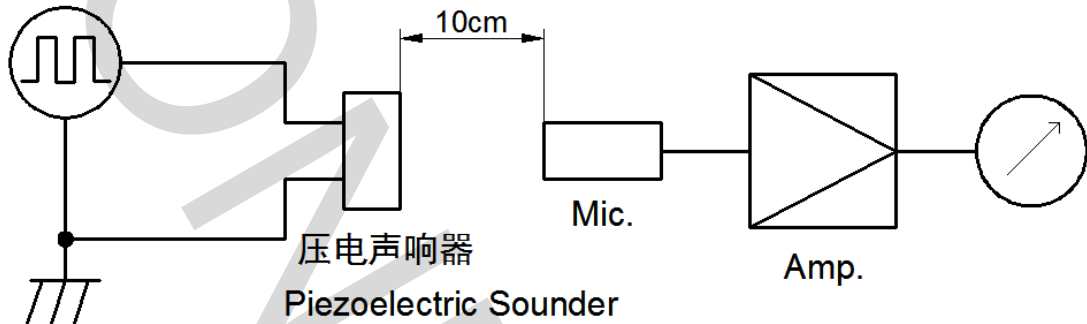
Dimensions (UNIT: mm):

Tolerance: ±0.5mm Except Specified



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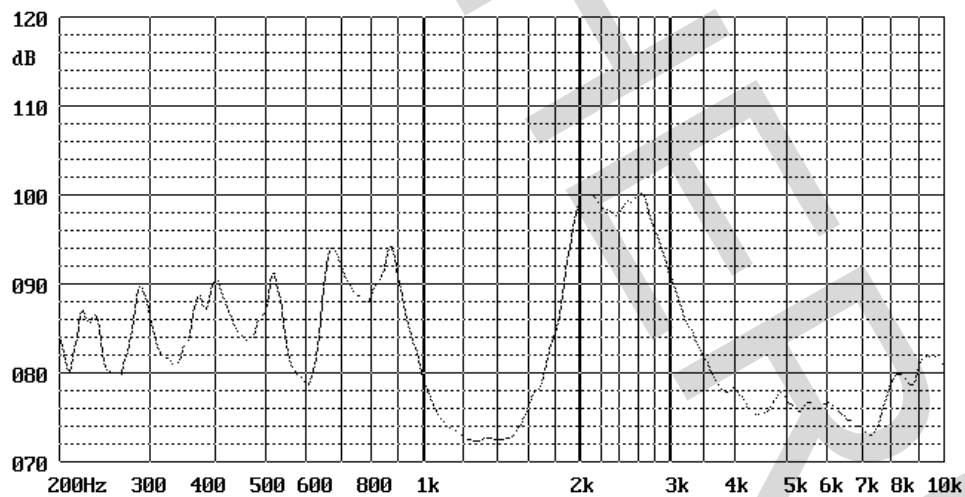
Test Method:



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

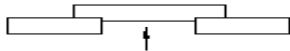
信号发生器: DF1641D或等同品
Signal Generator: DF1641D or equivalent

Frequency Response:



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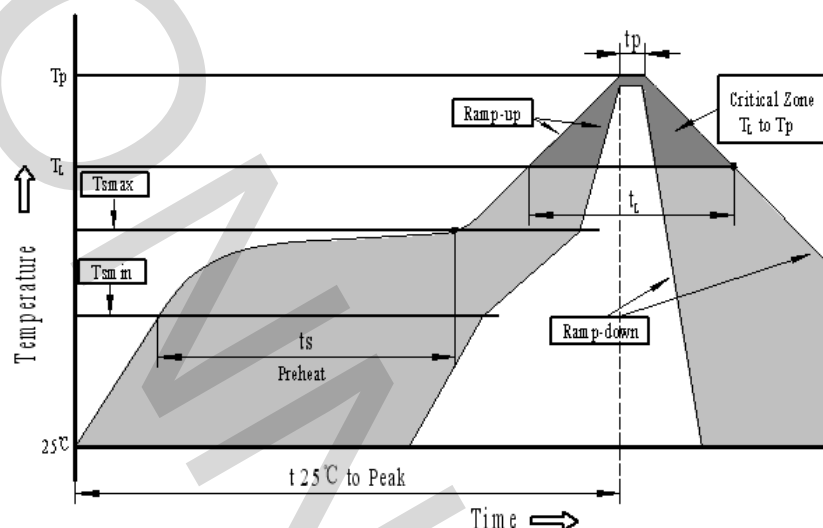
Reliability Test:

No.	Item	Test condition	Variance after test
1	High temp. storage	The part shall be capable of withstanding a storage temperature is $+105^{\circ}\text{C}$ for 120 hours	After being placed for 2 to 4hrs at room temp, the product shall meet specifications, except the SPL should be in $\pm 10\text{dB}$ compared with initial one.
2	Low temp. storage	The part shall be capable of withstanding a storage temperature is -40°C for 120 hours	
3	Temp. Cycle	Total 5 cycles, 1 cycle consisting of $-40 \pm 2^{\circ}\text{C}$, 30 minutes $20 \pm 5^{\circ}\text{C}$ 15 minutes $105 \pm 2^{\circ}\text{C}$, 30 minutes $20 \pm 5^{\circ}\text{C}$ 15 minutes	
4	Humidity Test	$40 \pm 2^{\circ}\text{C}$, 90 ~ 95% RH, 120 hours	
5	Vibration Test	To-and-fro. sweep time (from 10 to 55 Hz and then 55 to 10Hz) under single amplitude of 1.52mm is 1 minute. The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours.	The SPL shall meet specification.
6	Shock	Sounder shall be measured after being applied shock (980m/s^3) for each three mutually perpendicular directions to each of 3 times by half sine wave.	After the test, the product shall meet specifications, except the SPL should be in $\pm 10\text{dB}$ compared with initial one.
7	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).	
8	Lead pull	The part shall be pushed with a force of 9.8N for 10 ± 1 seconds behind the part. 	After the test part shall meet specifications without any degradation in appearance and performance.
9	Recommended temp. Profile for Reflow Oven	Shown in Fig.1	The SPL shall meet specification.

Warranty: For a period of six months from date of manufacturer under normal operations.

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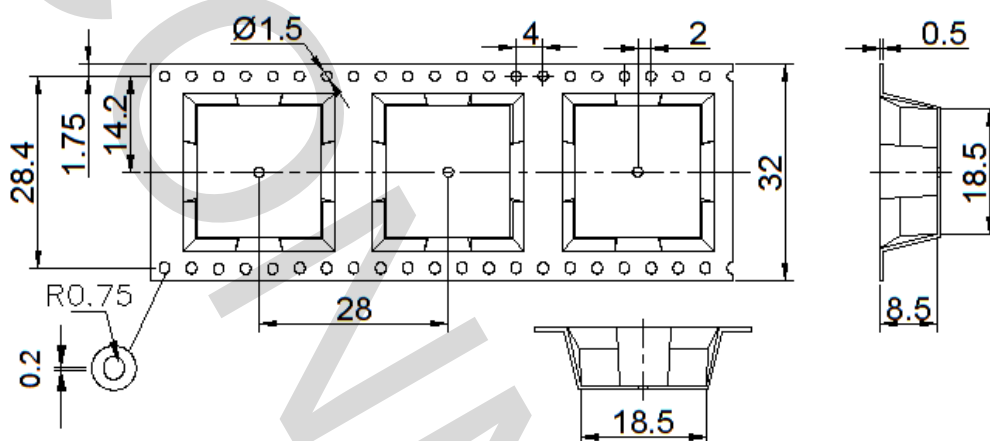
Recommended Temp. Profile for Reflow Oven (Fig.1)



Profile Feature	Pb-Free Assembly
Average ramp-up rate(T_L to T_p)	3°C/second max.
Preheat	
-Temperature Min.(T_{smin})	150°C
-Temperature Min.(T_{smax})	200°C
-Temperature Min.(t_s)	60 ~ 180 seconds
T_{smax} to T_L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature(T_L)	217°C
-Time(t_L)	60 ~ 150 seconds
Peak temperature(T_p)	245°C+0/-5
Time within 5°C of actual Peak temperature (t_p)	6 seconds max.
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.
We suggest the customer do the reflow soldering once.	

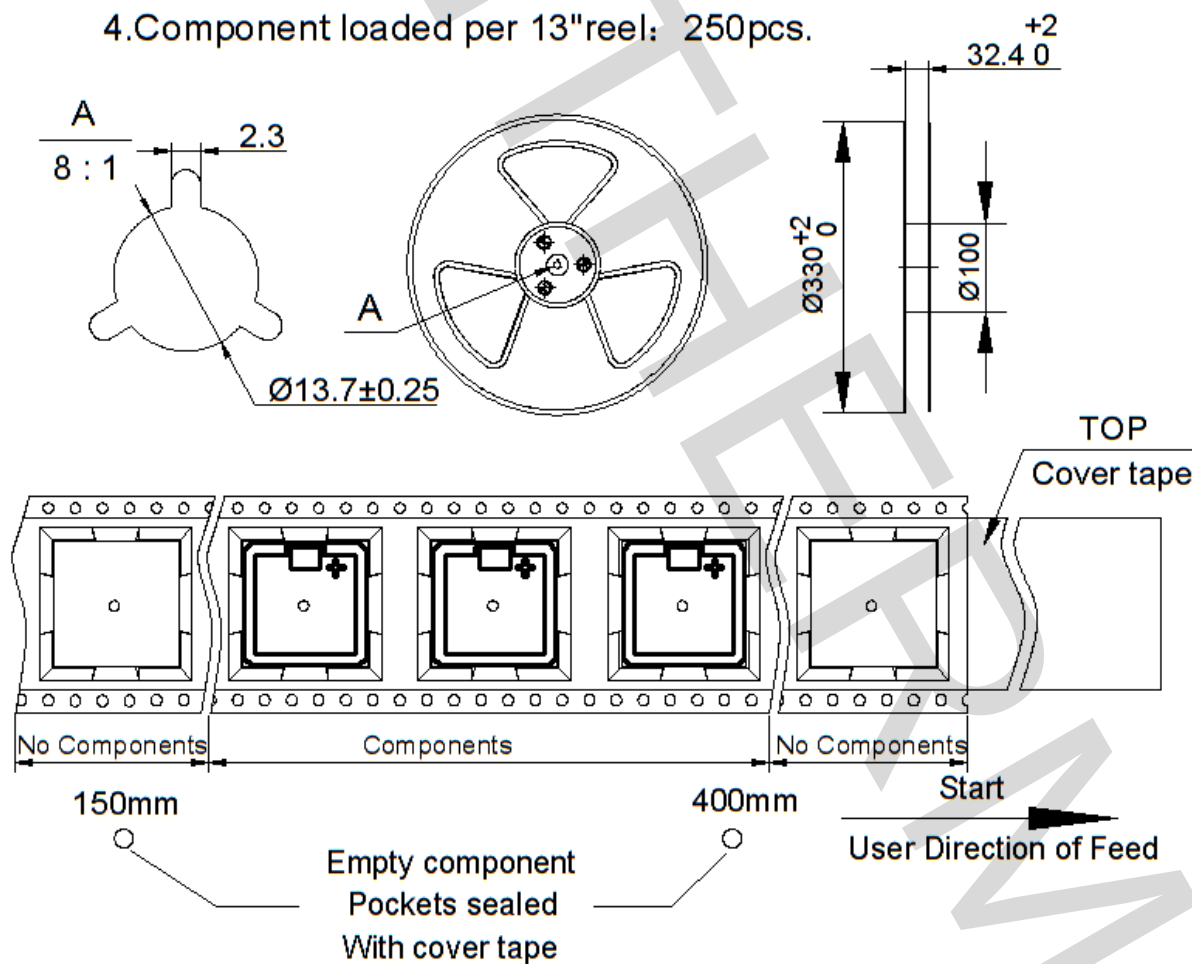
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Packing:



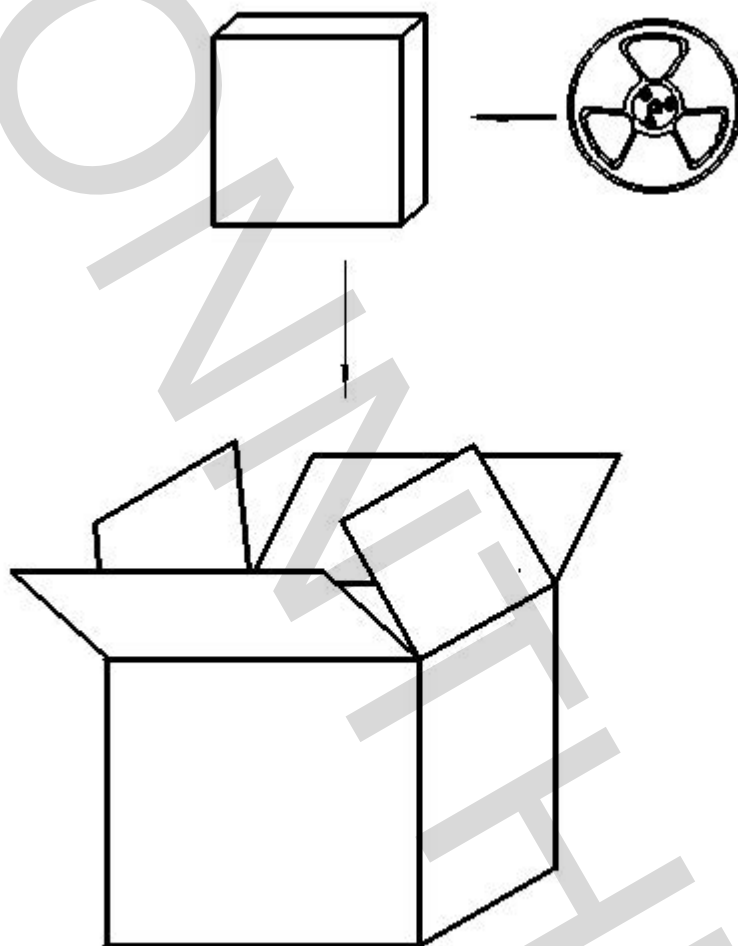
NOTE:

- 1.10 sprocket hole pitch cumulative tolerance ± 0.2 mm.
- 2.All dimensions meet EIA-481-D requirements.
- 3.Thickness: 0.5 ± 0.05 mm.
- 4.Component loaded per 13" reel: 250pcs.



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Packing:



NOTES:

- 1.250PCS per inner box
- 2.Total 10 inner boxes per carton