



深圳市兴华鑫电子科技有限公司

Shenzhen xinghuaxin Electronic Technology Co., Ltd

承認書

SPECIFICATION FOR APPROVAL

客戶 (Customer):

客戶料號 (Customer P/N):

興華鑫型號 (Supplier P/N):

XHxDZ-1760 贴片式

產品名稱 (Description):

蜂鸣器 (Buzzer)

產品規格 (Specification):

无源压电式

客戶承認欄 (Customer Authorization Signature)	深圳市興華鑫電子科技有限公司 承認欄 (Supplier Audit)		
	審核	檢查	制作
	唐国兴	唐玉来	吴银娟
	日期: 2022 年 04 月 19 日 版次: A		

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产品规格内容

Technical Terms:

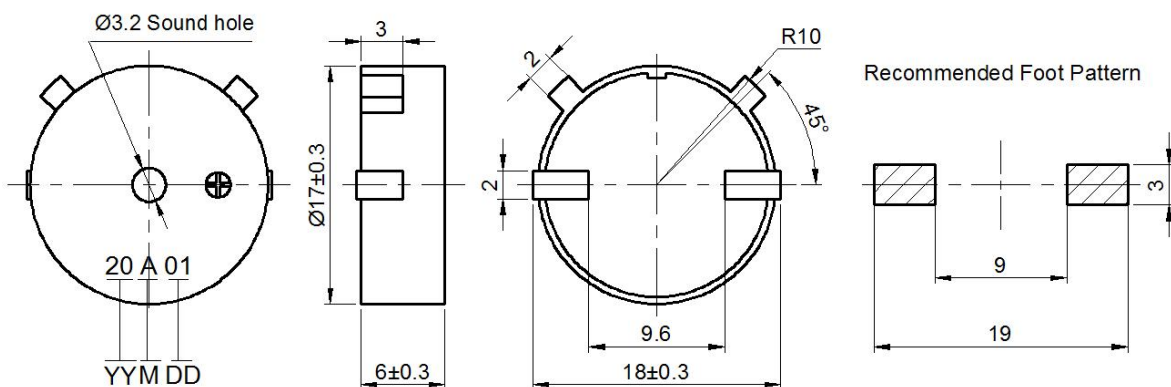
No.	Technical terms	Value
1	Rated Voltage (Vp-p)	12
2	Max Input Voltage(Vp-p)	30
3	*Rated Current(mA)	≤12
4	Capacitance at 100Hz (pF)	15000±30%
5	*Sound Output at 10cm(dB)	≥90
6	Resonance Frequency (KHz)	4.0±0.5
7	Operating Temperature(°C)	-30~+85
8	Storage Temperature(°C)	-40~+90
9	Weight (g)	1.6
10	Housing Material	PPS
11	RoHS	Yes

*Applying rated voltage (at 4.0KHz, 1/2 duty , square wave)

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

Dimensions (UNIT: mm):

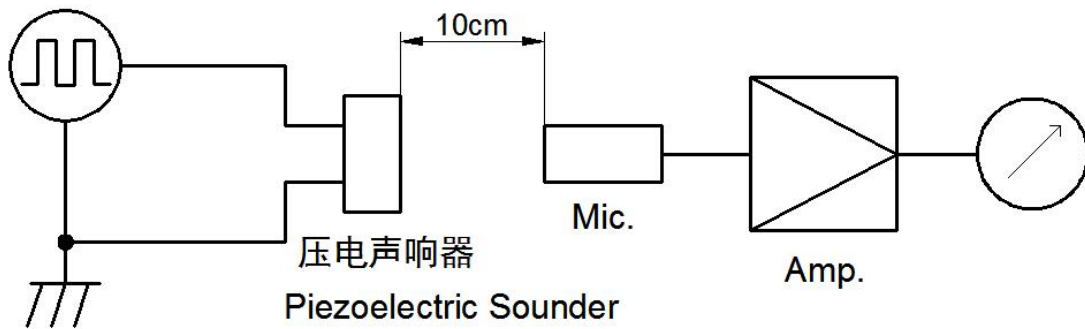
Tolerance: ±0.5mm Except Specified



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Test Method:



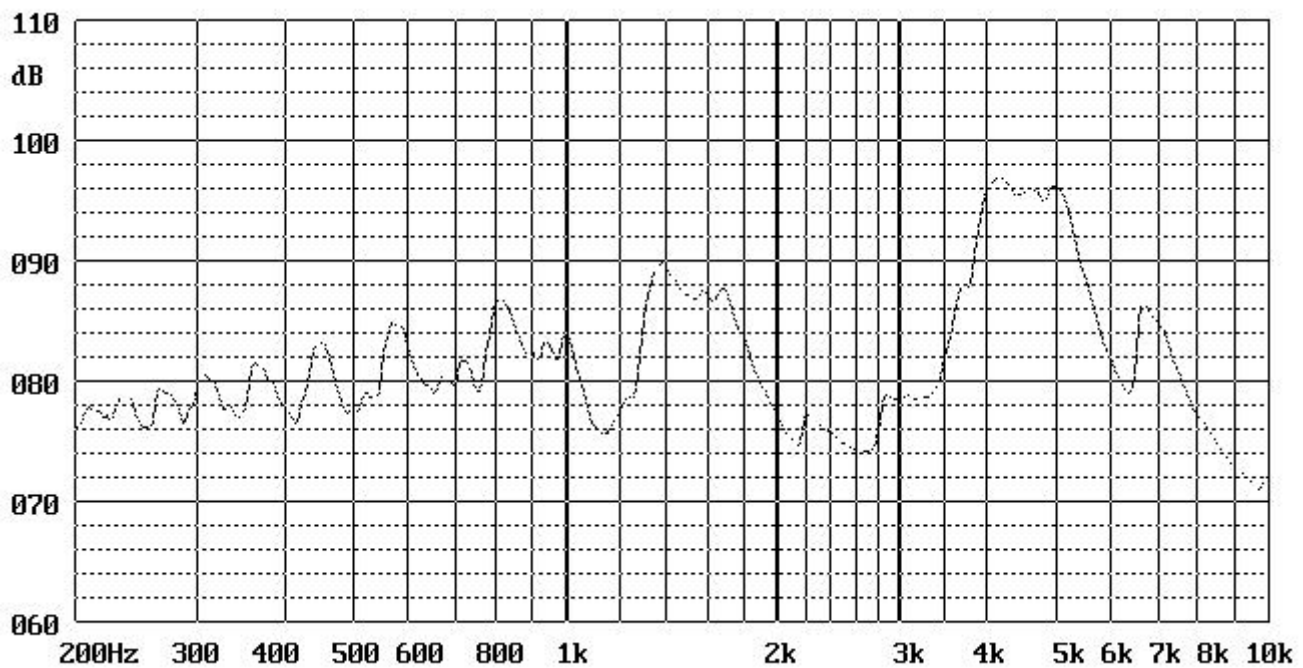
MIC: ND10 普通声级计或等同品

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:

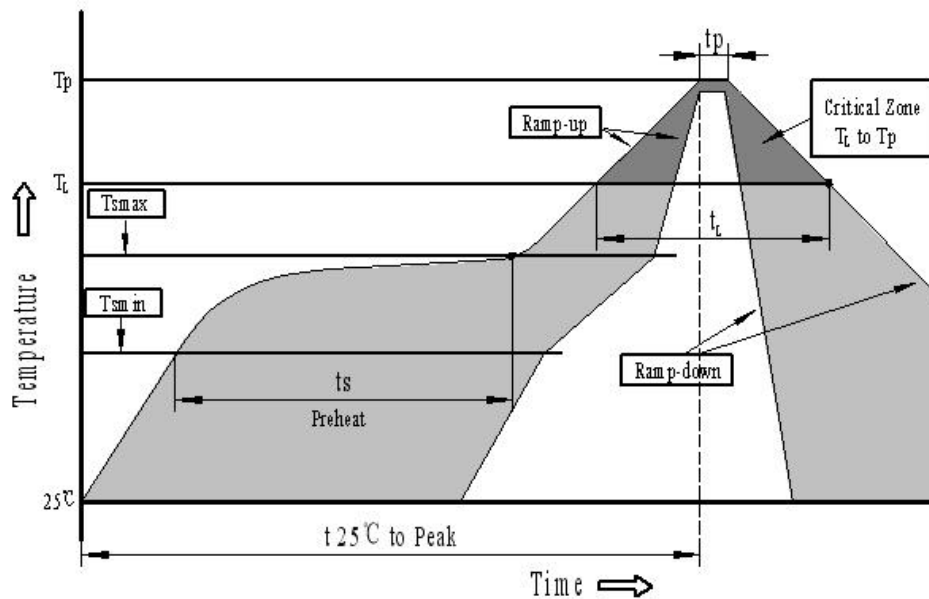
No.	Item	Test condition	Variance after test
1	High temp. storage	The part shall be capable of withstanding a storage temperature is $+90^{\circ}\text{C}$ for 120 hours	After being placed for 2 to 4hrs at room temp, the product shall meet specifications,except the SPL should be in $\pm 10\text{dB}$ compared 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 $90\pm 2^{\circ}\text{C}$, 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^2) 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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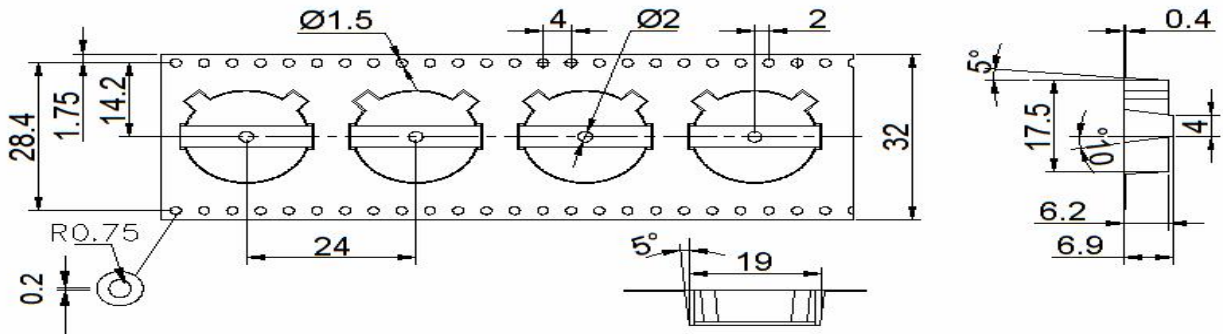
产品规格内容

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



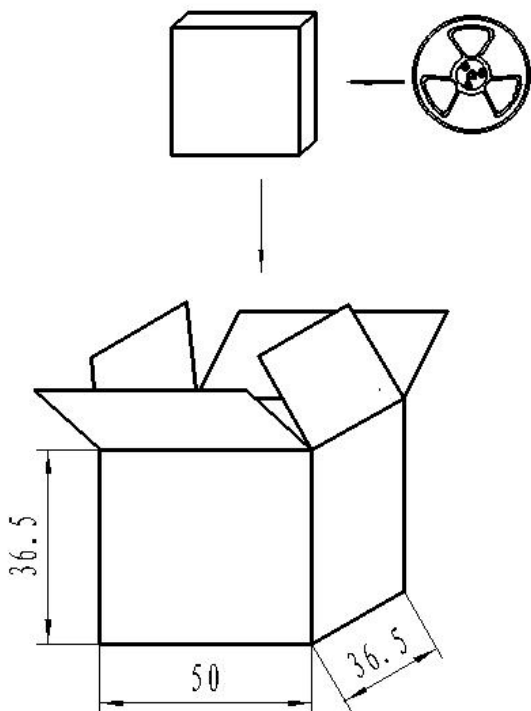
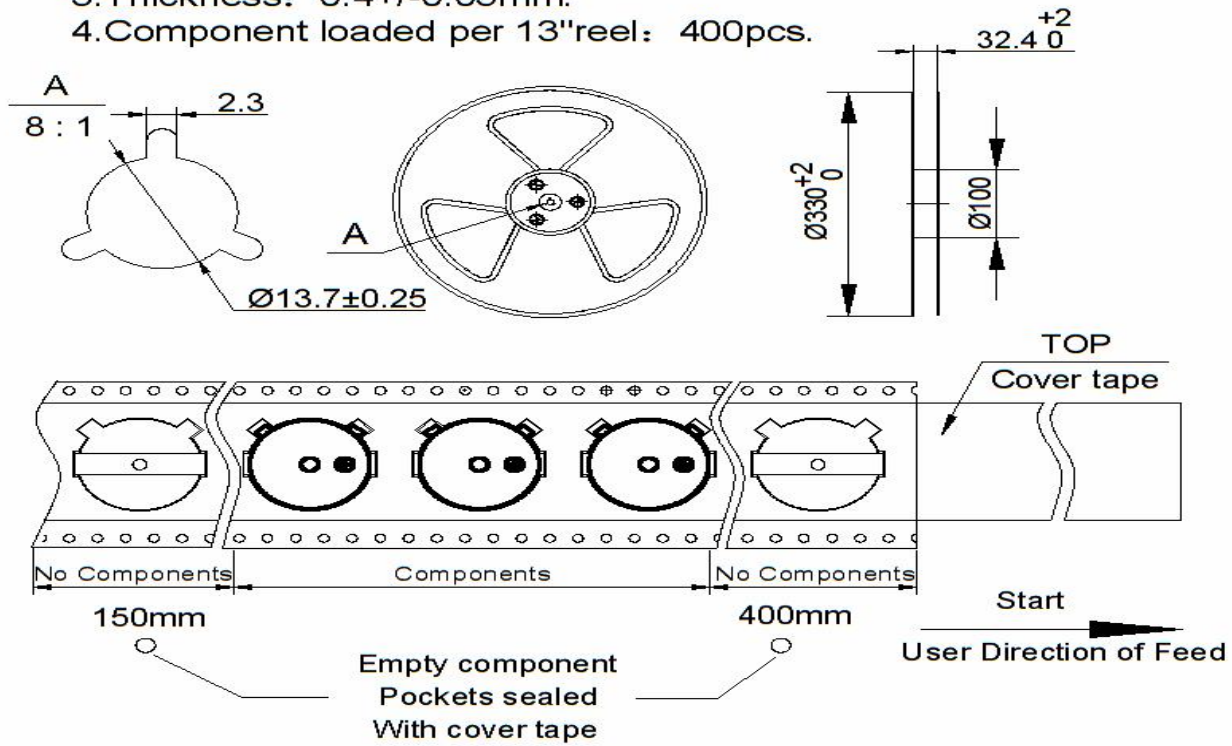
Profile Feature	Pb-Free Assembly
Average ramp-up rate(T _L to T _p)	3°C/second max.
Preheat	
-Temperature Min.(T _{sm})	150°C
-Temperature Min.(T _{sm})	200°C
-Temperature Min.(t _s)	60~180 seconds
T _{sm} to T _L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature(T _L)	217°C
-Time(t _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.	

Packing:



NOTE:

1. 10 sprocket hole pitch cumulative tolerance +/-0.2mm.
2. All dimensions meet EIA-481-D requirements.
3. Thickness: 0.4+/-0.05mm.
4. Component loaded per 13" reel: 400pcs. 32.4



NOTES:

- 1.400 PCS per box
- 2.Total 10 boxes per carton
- 3.Total 4000 PCS carton
- 4.Volum:50*36.5*36.5cm