



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-2311 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		

声音让生活更精彩!

地址: 深圳市宝安区新安街道新乐社区新乐路 88 号厂房四层

TEL: 0755-27892904 13652428659

QQ: 438730351 2993501458

E-mail: xhxdzsound@163.com

Http: www.jsxhxdz.com

深圳市兴华鑫电子科技有限公司

产品规格内容

Technical Terms:

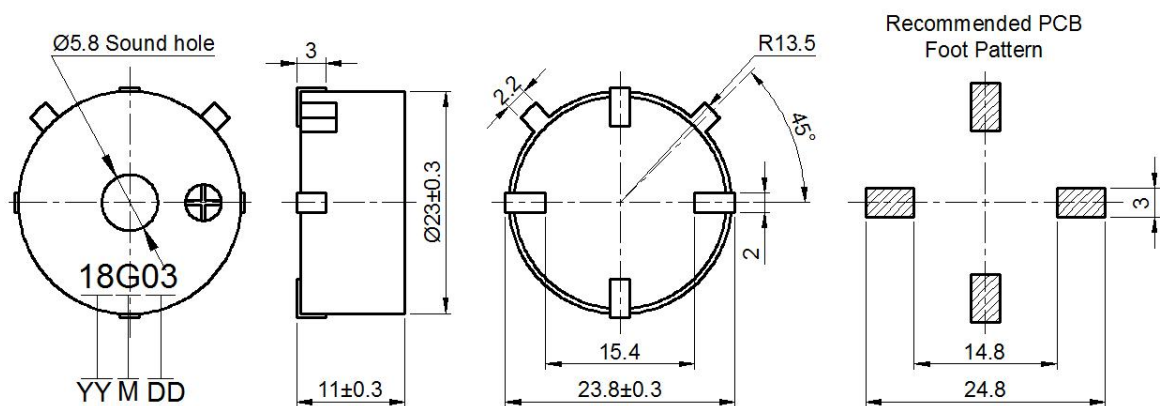
No.	Technical terms	Value
1	Rated Voltage (Vp-p)	12
2	Max Input Voltage(Vp-p)	30
3	*Rated Current(mA)	≤12
4	Capacitance at 100Hz (pF)	19000±30%
5	*Sound Output at 10cm(dB)	≥100
6	Resonance Frequency (KHz)	4.0±0.5
7	Operating Temperature(℃)	-30~+85
8	Storage Temperature(℃)	-40~+90
9	Weight (g)	3.3
10	Housing Material	PPS
11	RoHS	Yes

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

Test Basic State: Temp($20 \pm 2^{\circ}\text{C}$), Humidity(40~70%RH), Air pressure(860~1060hPa).

Dimensions (UNIT: mm):

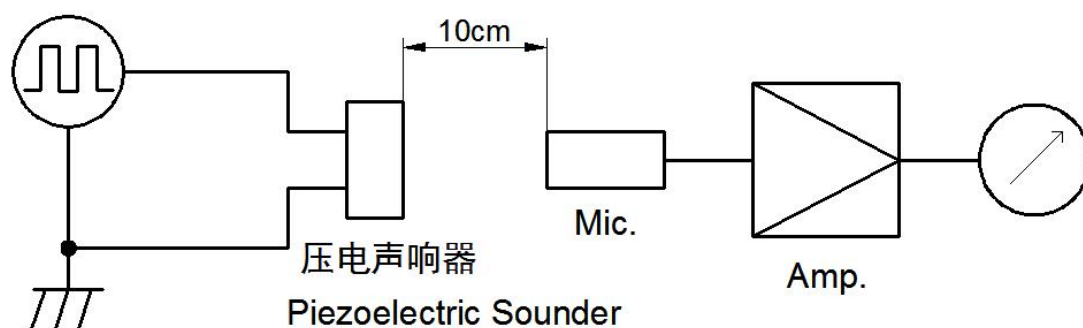
Tolerance: $\pm 0.5\text{mm}$ Except Specified



深圳市兴华鑫电子科技有限公司

产品规格内容

Test Method:



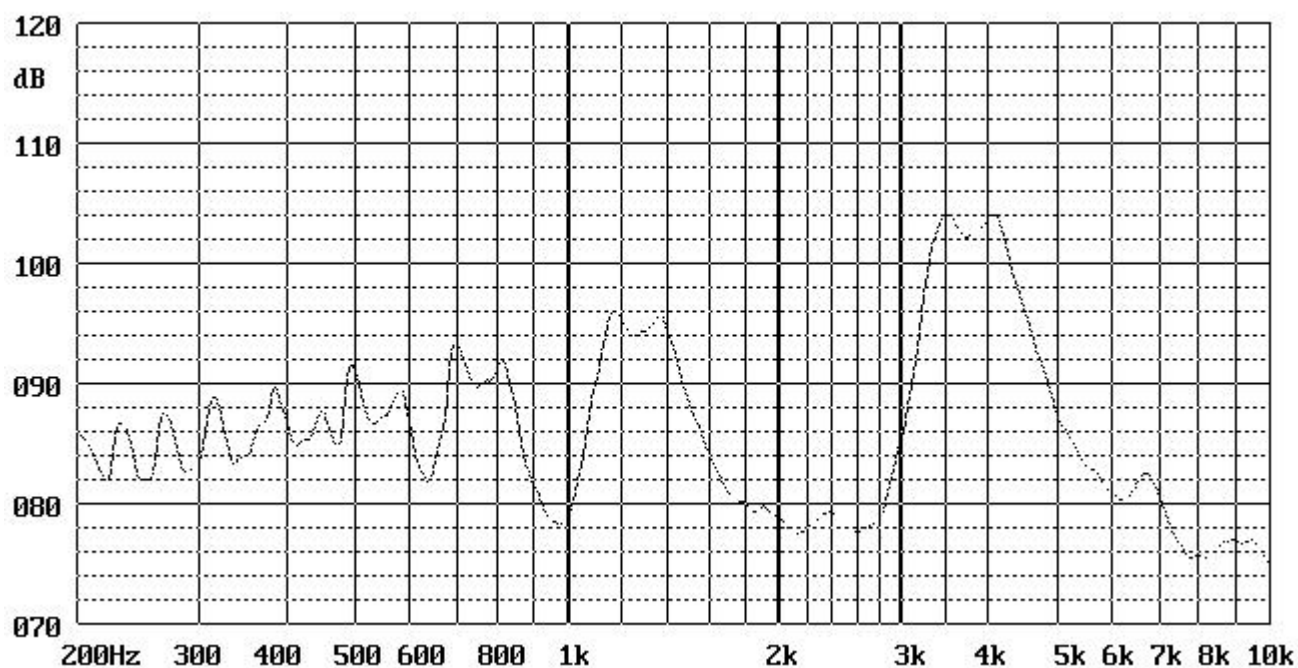
MIC: ND10 普通声级计或等同品

MIC: ND10 Sound Meter or equivalent

信号发生器: DF1641D或等同品

Signal Generator: DF1641D or equivalent

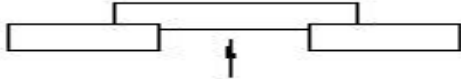
Frequency Response:



深圳市兴华鑫电子科技有限公司

产品规格内容

Reliability Test:

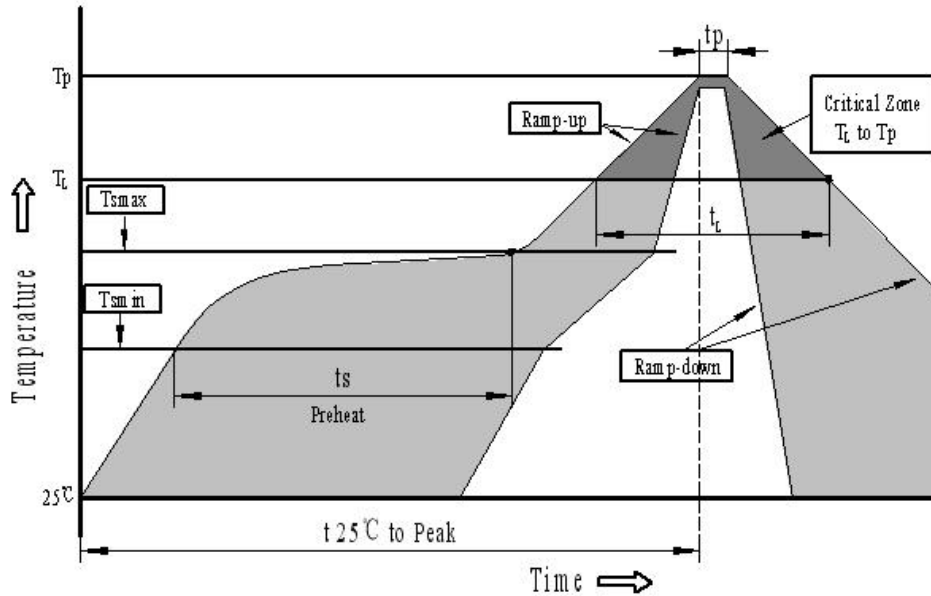
No.	Item	Test condition	Variance after test
1	High temp. storage	The part shall be capable of withstanding a storage temperature is +90℃ for 120 hours	After being placed for 2 to 4hrs at room temp, the product shall meet specifications,except the SPL should be in ±10dB compared with initial one.
2	Low temp. storage	The part shall be capable of withstanding a storage temperature is -40℃ for 120 hours	
3	Temp. Cycle	Total 5 cycles, 1 cycle consisting of -40±2℃, 30 minutes 20±5℃ 15 minutes 90±2℃, 30 minutes 20±5℃ 15 minutes	
4	Humidity Test	40±2℃, 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 ±10dB 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.

深圳市兴华鑫电子科技有限公司

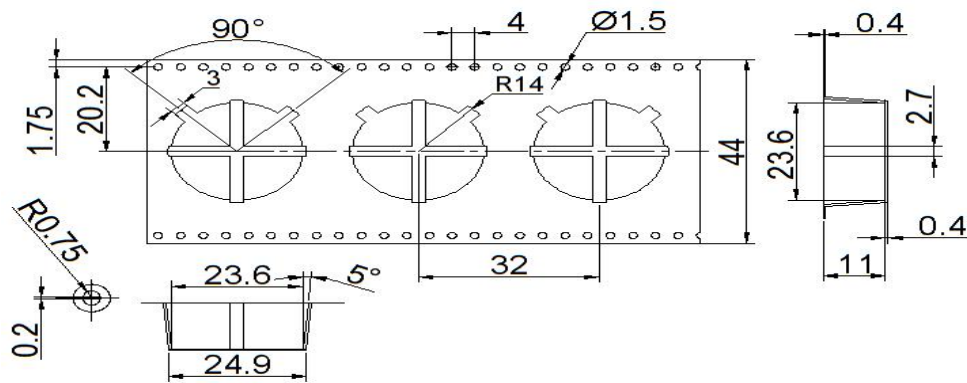
产品规格内容

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



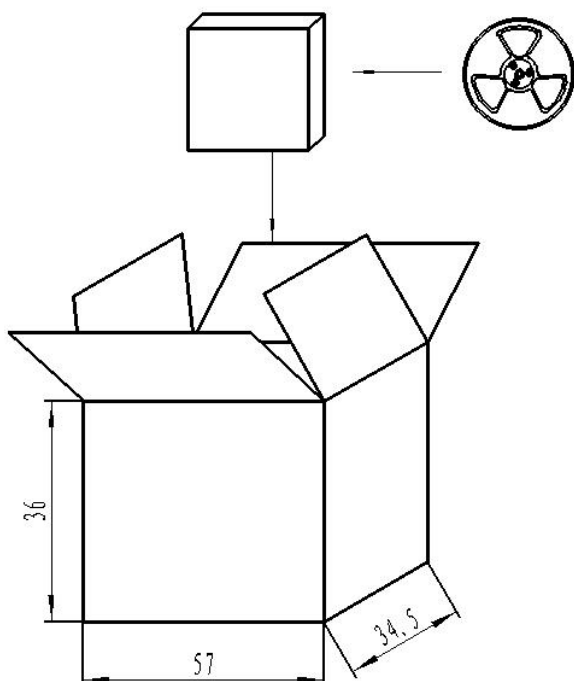
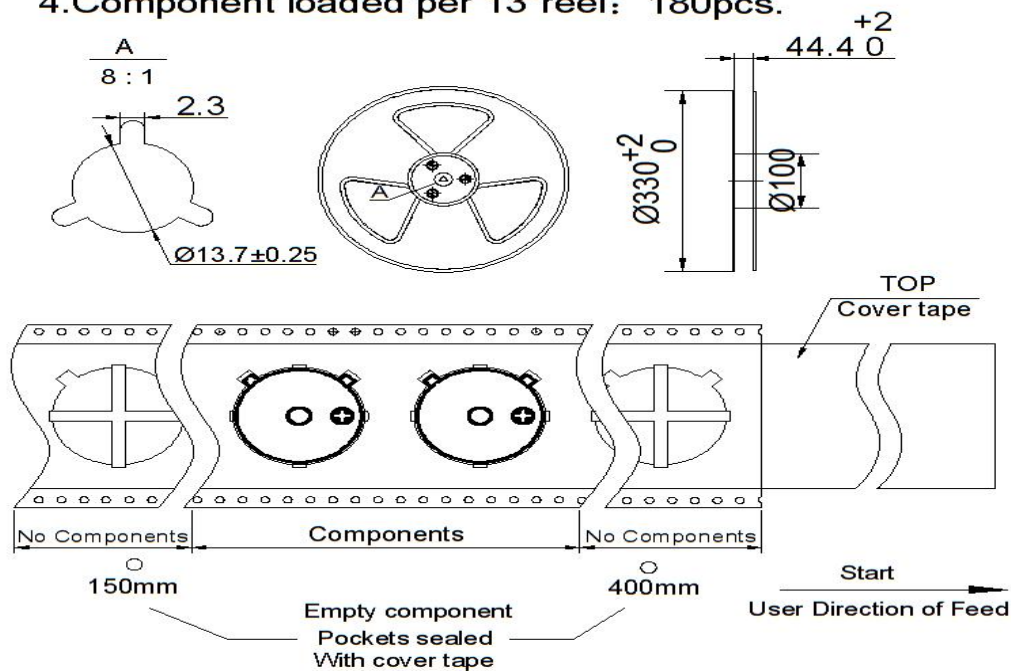
Profile Feature	Pb-Free Assembly
Average ramp-up rate(T_L to T_p)	3°C/second max.
Preheat	
-Temperature Min.(T_{smin})	150°C
-Temperature Min.(T_{smax})	200°C
-Temperature Min.(t_s)	60~180 seconds
T_{smax} to T_L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature(T_L)	217°C
-Time(t_L)	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.	

Packing:



NOTE:

1. 10 sprocket hole pitch cumulative tolerance $\pm 0.2\text{mm}$.
2. All dimensions meet EIA-481-D requirements.
3. Thickness: $0.4 \pm 0.05\text{mm}$.
4. Component loaded per 13" reel: 180 pcs.



NOTES:

1. 180 PCS per box
2. Total 10 boxes per carton
3. Total 1800 PCS carton
4. Volum: a 57*34.5*36cm