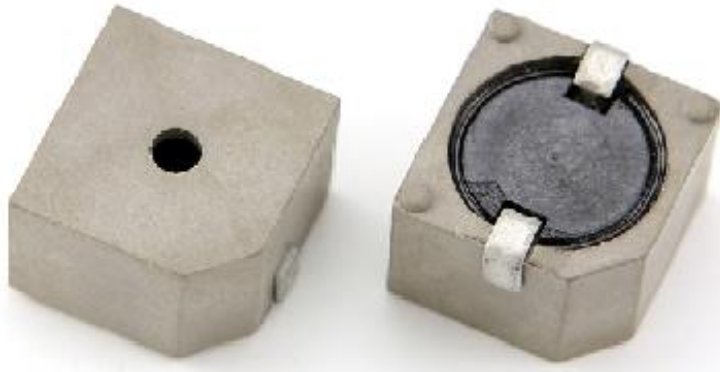

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SPECIFICATION FOR APPROVAL ELECTRO-MAGNETIC BUZZER

Model Name	LEB1310BS-1.5S-2.4-R
Note	

Product Photo	Cre-sound
	DRAWN: 周文占
	CHECKED: 许海
	APPROVED: 宋雪琪
Customer Confirmation:	

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Alteration History					
Change NO.	Note	Before of changes	After of changes	Reason	Revision

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LEB1310BS-1.5S-2.4-R ELECTRO-MAGNETIC BUZZER

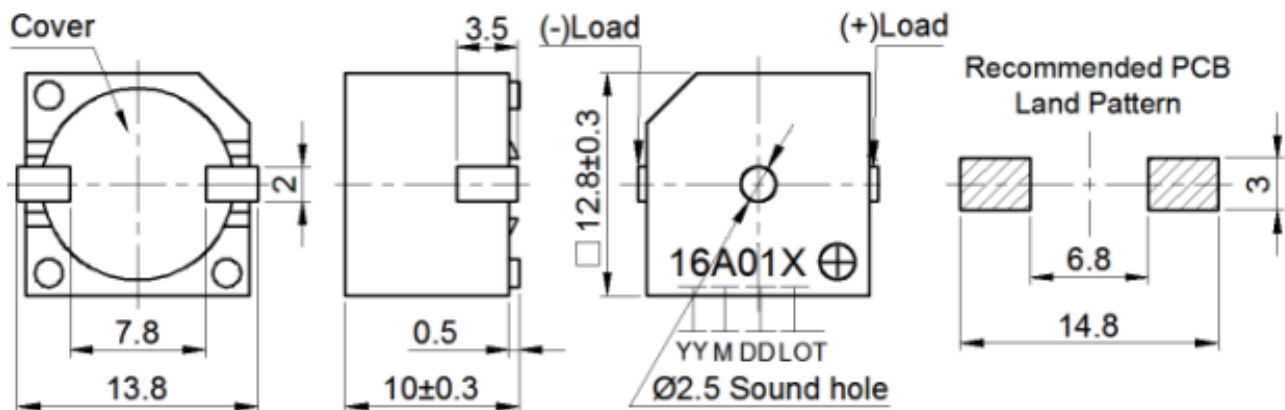
No.	Technical terms	Value
1	Rated Voltage (VDC)	1.5
2	Operating Voltage (VDC)	1.4~3
3	☆0*Current Consumption (mA)	≤20
4	☆*Sound Output at 10cm (dB)	≥80
5	☆*Resonant Frequency (Hz)	2400±300
6	Operating Temperature (°C)	-40~+85
7	Storage Temperature (°C)	-40~+90
8	Weight (g)	3.0
9	Housing Material	PPS
10	RoHS	Yes

*Value applying at rated voltage

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

DIMENSIONS (UNIT: mm)


Tolerance: ±0.5mm Except Specified



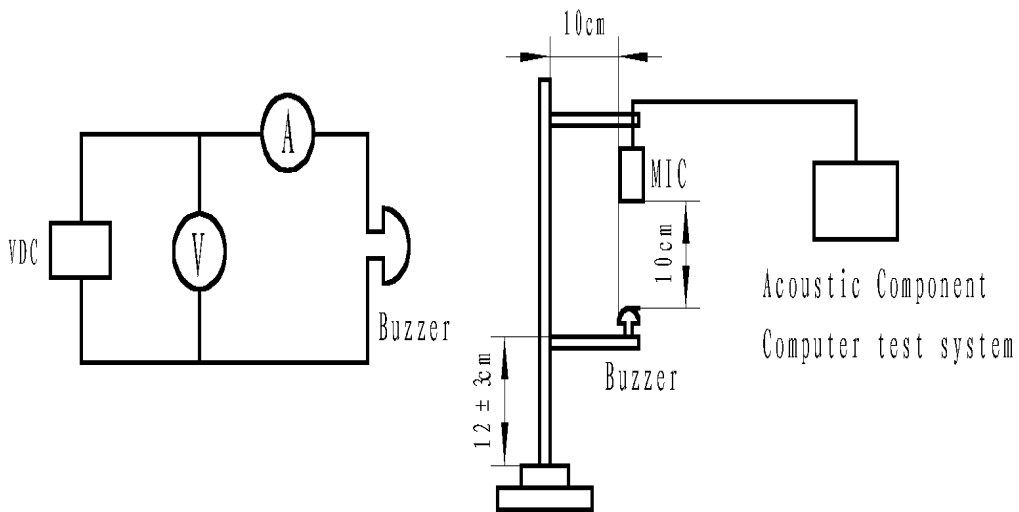
Changzhou Cre-sound Electronics Co., Ltd

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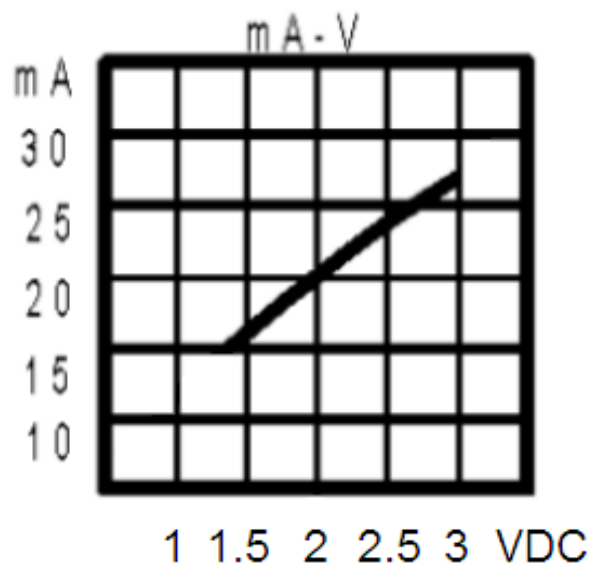
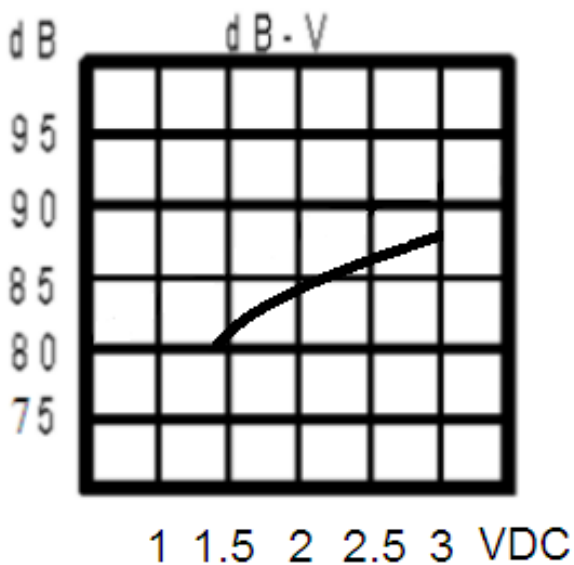
E-mail: sales3@wj-lianhua.com


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TEST METHOD:




TYPICAL CHARACTERISTIC CURVES OF LEB1310BS-1.5S-2.4-R



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RELIABILITY TEST:


NO.	ITEM	TESTING 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 $120 \pm 2^{\circ}\text{C}$, 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).	After the test part shall meet specifications without any degradation in appearance and performance.
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 one year from date of manufacture under normal operations.

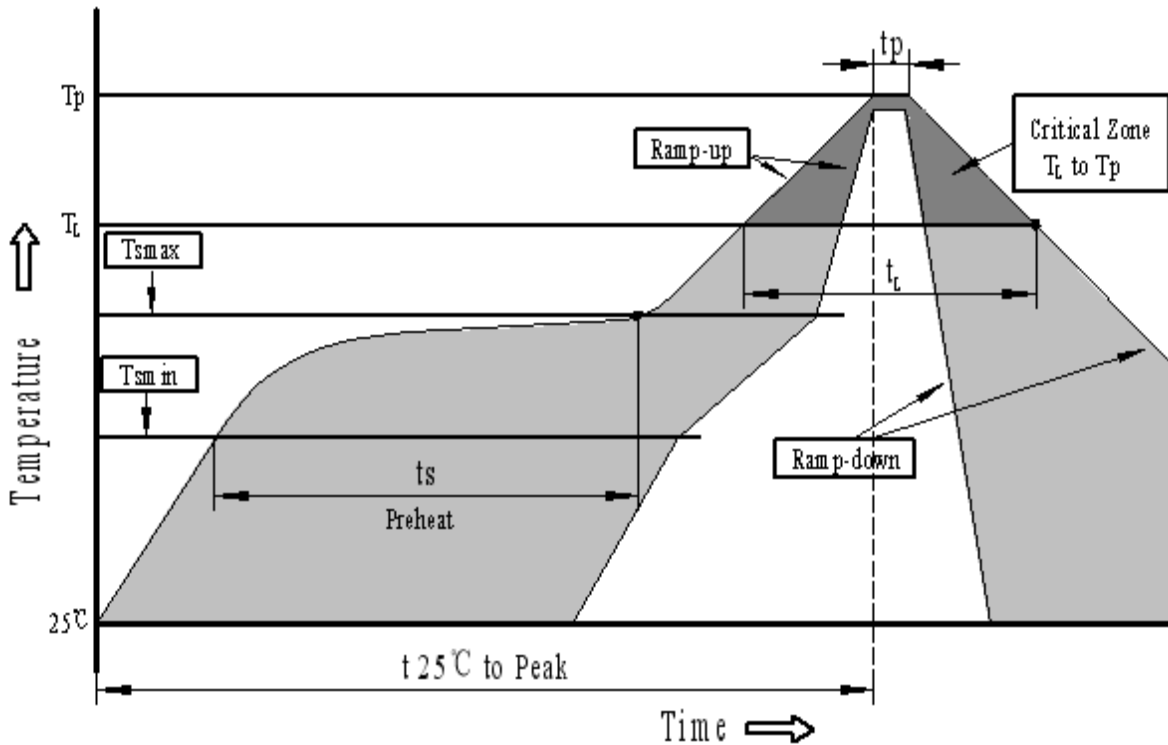
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Recommended Temp. Profile for Reflow Oven (Fig.1)




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°C
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.

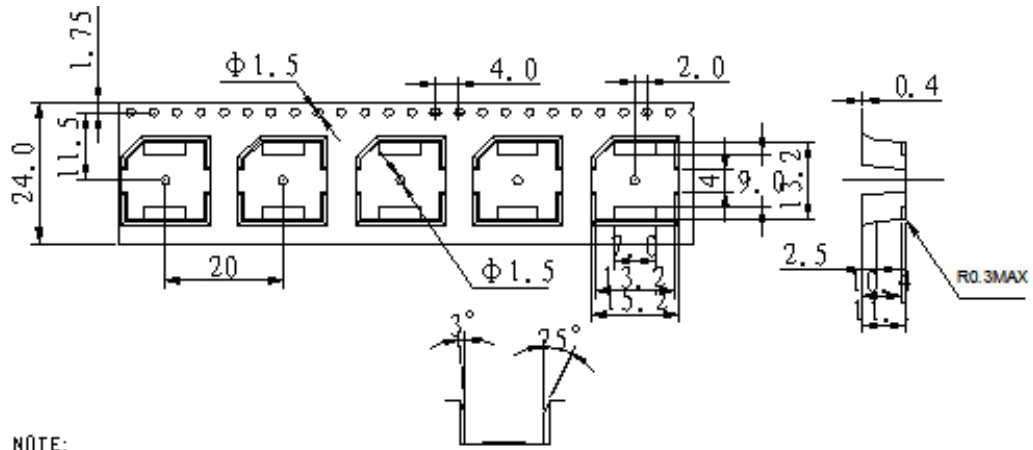
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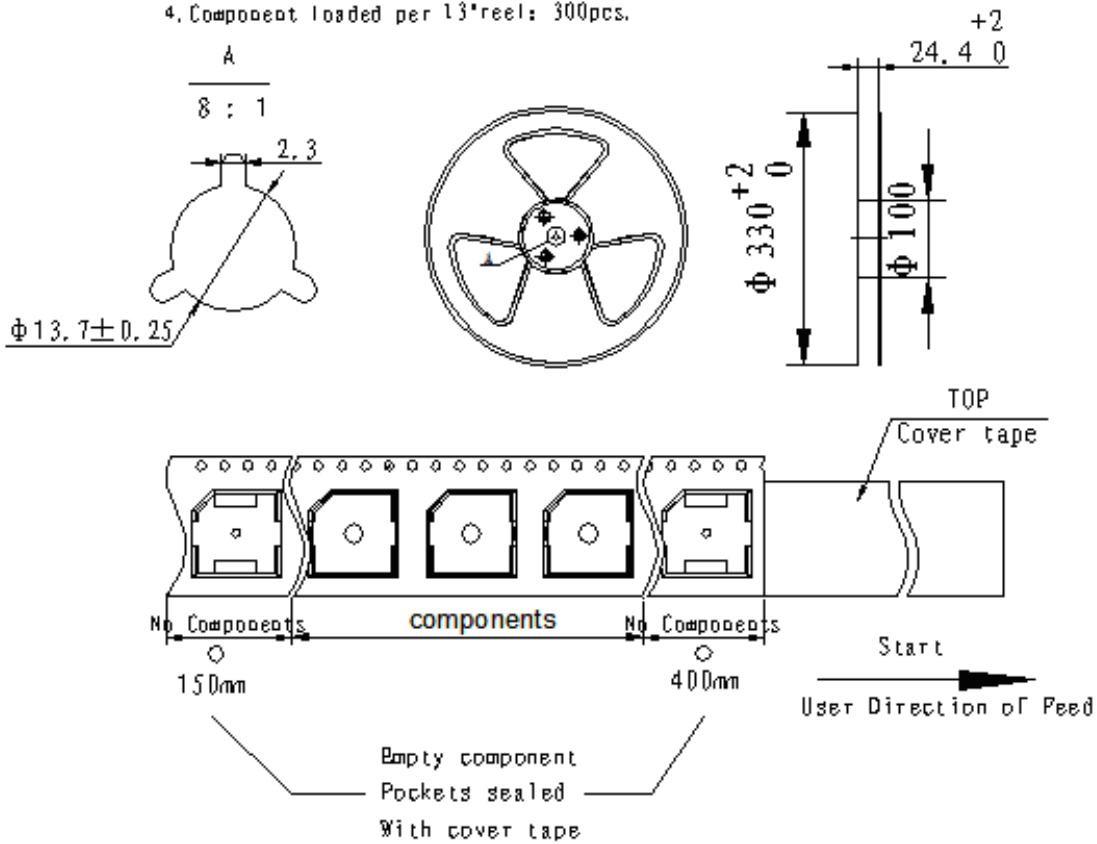
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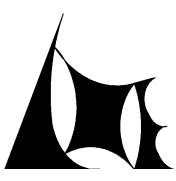
PACKING:



NOTE:

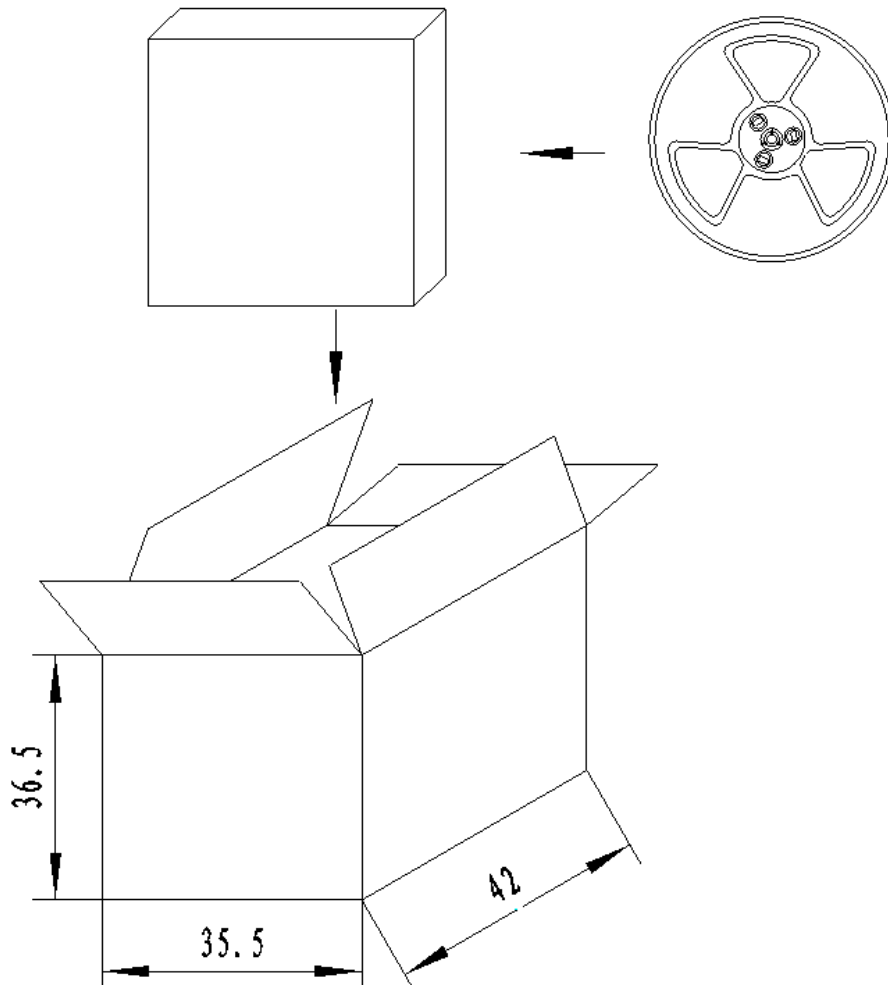
1. 1.10 sprocket hole pitch cumulative tolerance $\pm 0.2\text{mm}$.
2. All dimensions meet EIA-481-D requirements.
3. Thickness: $0.4 \pm 0.05\text{mm}$.
4. Component loaded per 13" reel: 300pcs.



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PACKING:

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NOTES:

- 1.300 PCS per box
- 2.Total 10 boxes per carton
- 3.Total 3000 PCS carton

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