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	<i>MODEL NAME: LPT1230S-HL-03-4.0-16-R</i>			

SPECIFICATION FOR APPROVAL

SMD PIEZO TRANSDUCER

Model Name	LPT1230S-HL-03-4.0-16-R
Note	

CUSTOMER	
	DRAWN : Tang Hu
	CHECKED : Li Xiaofen
	APPROVED : Rose Song

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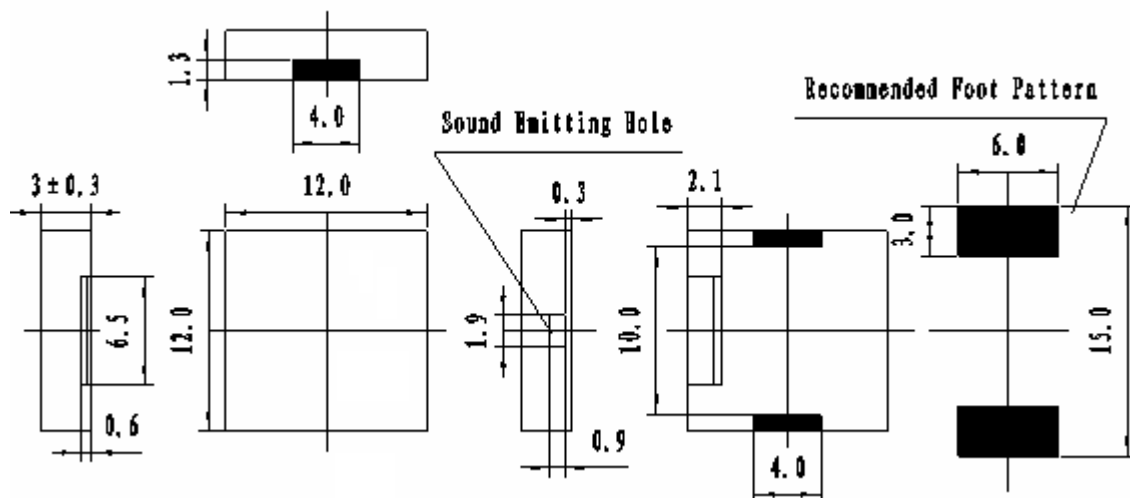
LPT1230S-HL-03-4.0-16-R PIEZO TRANSDUCER


1	Rated Voltage (Vp-p)	3
2	Resonance Frequency (KHz)	4.0 ± 0.5
3	Max Input Voltage (Vp-p)	25
4	Capacitance at 120Hz (pF)	16000 ± 30%
5	*Sound Output at 10cm (dB)	75
6	Operating Temperature ()	-20 ~ +70
7	Storage Temperature ()	-30 ~ +80
8	*Rated Current (mA)	5
9	Weight (g)	0.3
10	Housing Material	LCP
11	RoHS	Yes

*Applying rated voltage (Resonant frequency, Square wave)

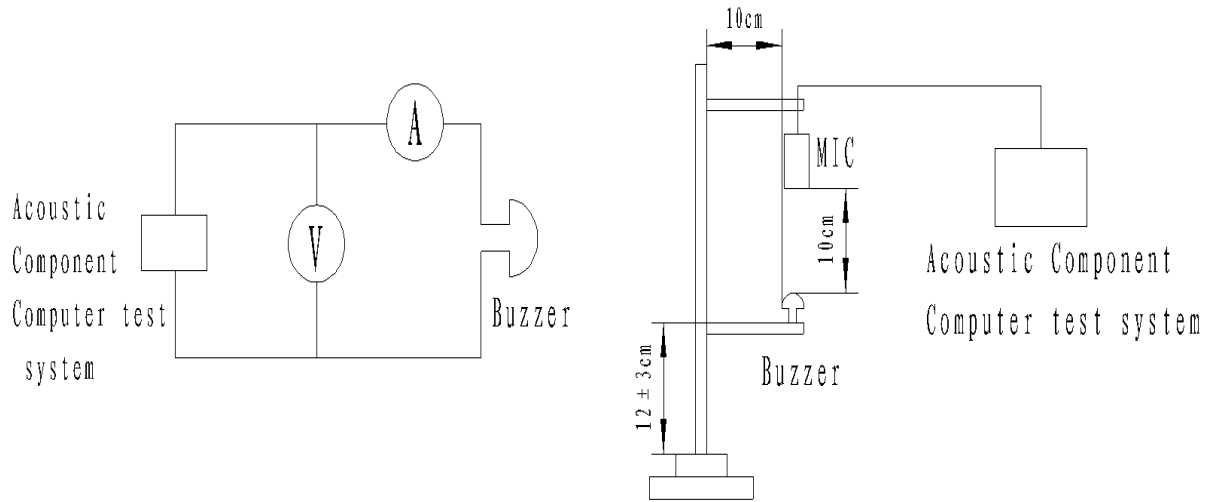
DIMENSIONS (UNIT: mm)

Tolerance: ± 0.5mm Except Specified

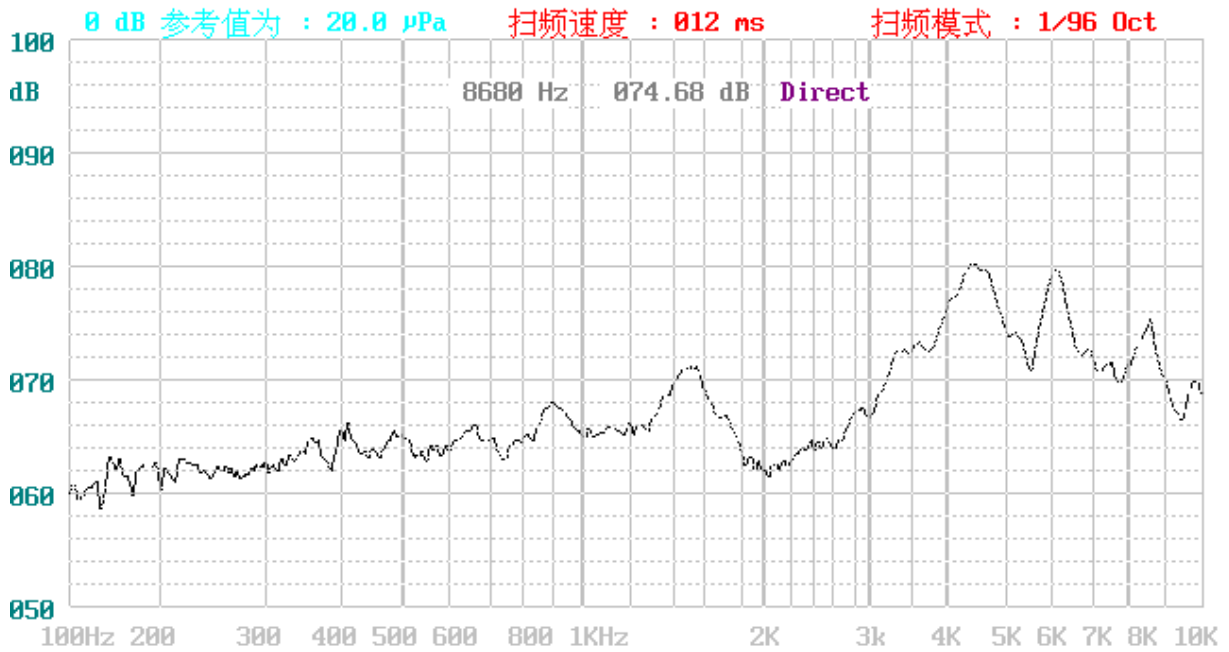



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TEST METHOD:

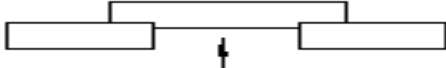


FREQUENCY RESPONSE:




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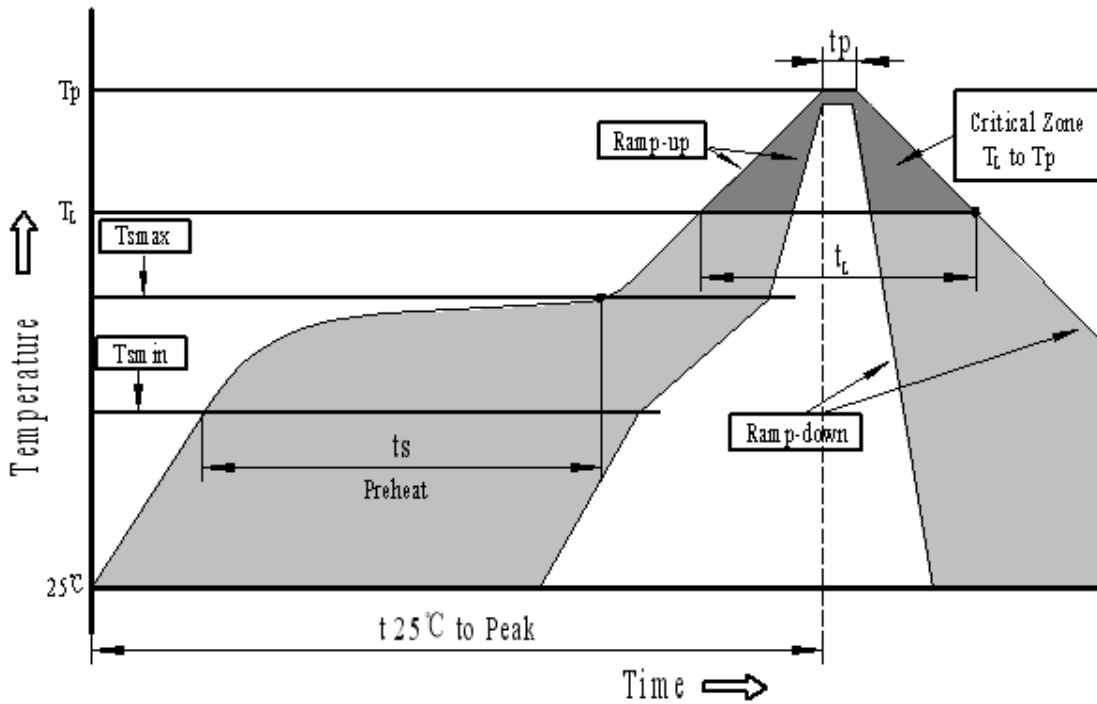
RELIABLY TEST:

NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
1	High temp. storage life	The part shall be capable of withstanding a storage temperature is +80 for 120 hours	<i>All specifications must be satisfied after the test.</i>
2	Low temp. storage life	The part shall be capable of withstanding a storage temperature is -30 for 120 hours	
3	Temp. Cycle	Total 5 cycles, 1 cycle consisting of -30 ± 2 , 30 minutes 20 ± 5 15 minutes 80 ± 2 , 30 minutes 20 ± 5 15 minutes	
4	Humidity Test	40 ± 2 , 90 ~ 95% RH, 120 hours	
5	Vibration Test	The part shall be subjected to a vibration cycle is 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm(9.3g). The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours.	
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.	
7	Drop Test	Dropped naturally from 700mm height onto the surface of 10mm thick wooden board. 2 directions-upper and side of the part are to be applied.	
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	


Warranty:For a period of one year from date of manufacture under normal operations.

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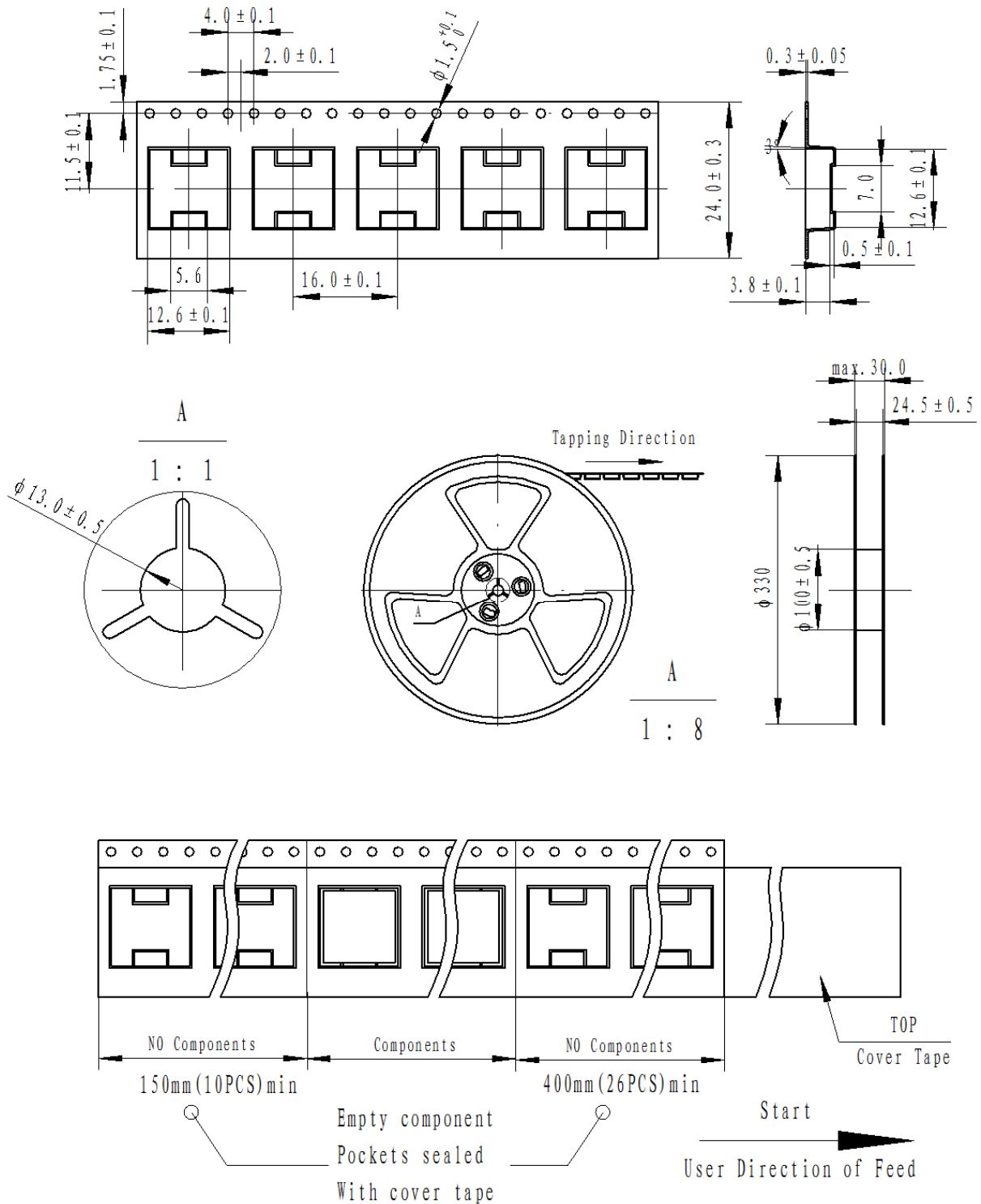
Recommended Temp. Profile for Reflow Oven (Fig.1)




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

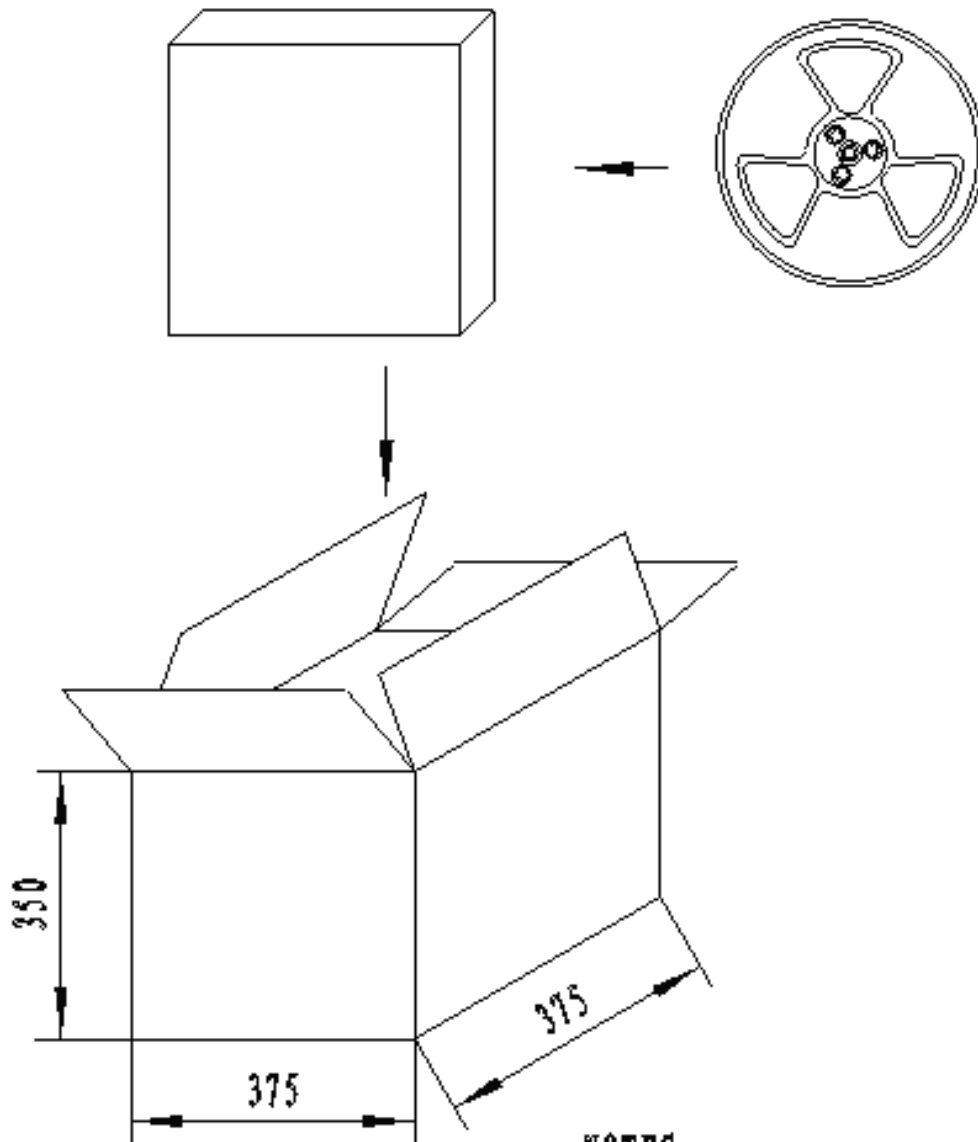
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PACKING:



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PACKING:



NOTES:

1. 1000 PCS per box
2. Total 10 boxes per carton
3. Total 10000 PCS carton

Changzhou Wujin Lianhua Electronics Co., Ltd

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