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	MODEL NAME:LPT1255H-TB-05-4.0-12-6.5-R			

SPECIFICATION FOR APPROVAL PIEZO TRANSDUCER

Model Name	LPT1255H-TB-05-4.0-12-6.5-R
Note	

Product Photo	Cre-Sound
	DRAWING: 吴义涛
	CHECKED: 姚宝鑫
	APPROVED: 宋雪琪
Customer Confirmation:	

ChangZhou Cre-Sound Electronics Co.,Ltd.
Tel: +86-13775077683 +86-519-86321175;
E-mail:connie@wj-lianhua.com

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

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Technical Terms:

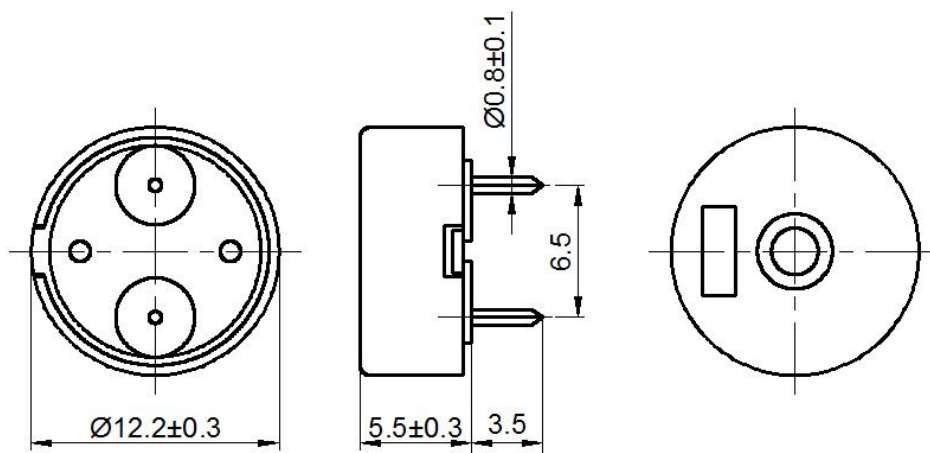
No.	Technical terms	Value
1	Rated Voltage (Vp-p)	5
2	Operating Voltage(Vp-p)	3-25
3	*Rated Current(mA)	≤ 5
4	Capacitance at 100Hz (pF)	12000 $\pm$ 30%
5	*Sound Output at 10cm(dB)	≥ 75
6	Resonance Frequency (KHz)	4.0 $\pm$ 0.5
7	Operating Temperature($^{\circ}$ C)	-20 $\sim$ +70
8	Storage Temperature($^{\circ}$ C)	-30 $\sim$ +85
9	Weight (g)	0.65
10	Housing Material	PBT
11	RoHS	Yes

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

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

Dimensions (UNIT: mm):

Tolerance: ± 0.5 mm Except Specified



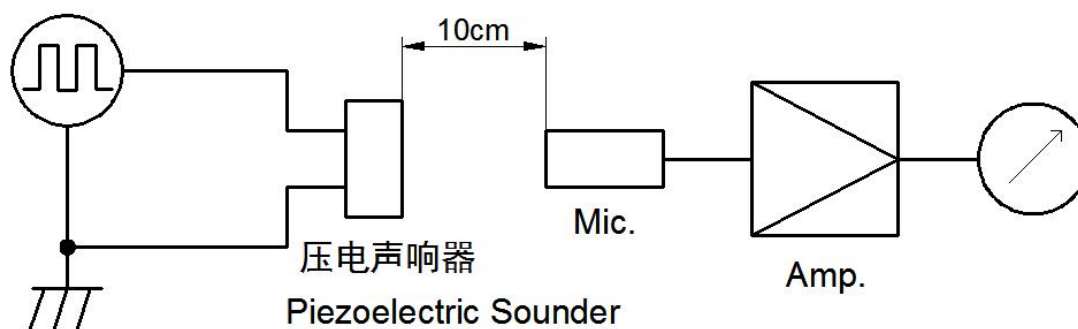
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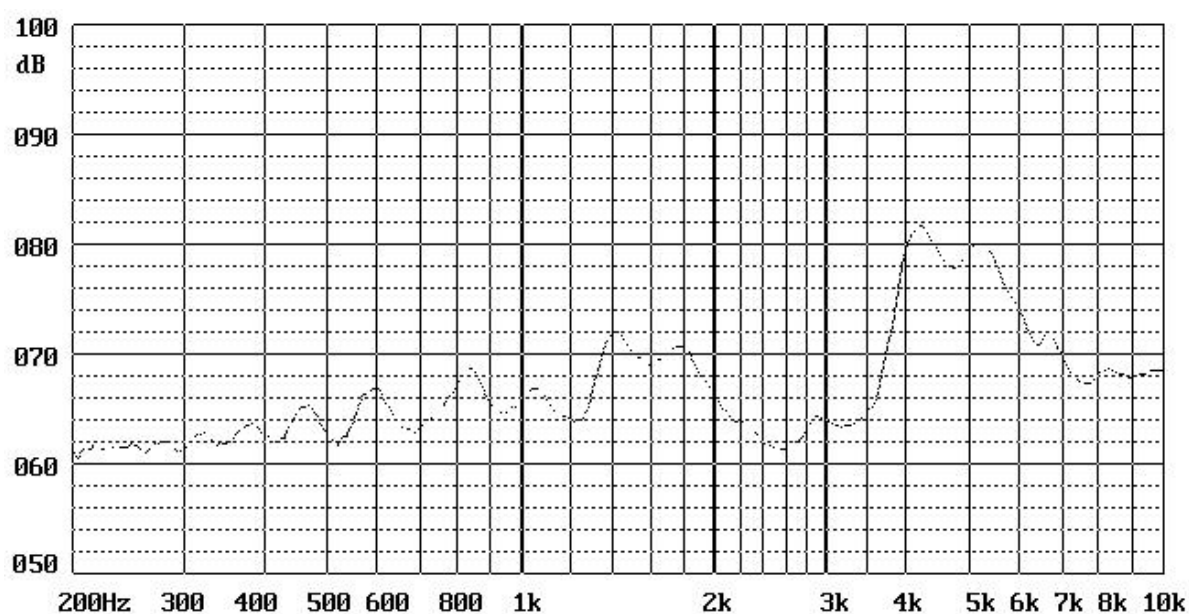
Test Method:



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:

● Environment Test:

No.	Item	Test condition	Evaluation standard
1	High temp. test	+80±2℃, 96Hrs	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. test	-30±2℃, 96Hrs	
3	Humidity test	40±2℃ ,93(+2/-3)%RH for 96Hrs	
4	Temp. cycle test	-30±2℃, 30minutes +20±2℃, 15 minutes +80±2℃, 30 minutes +20±2℃, 15 minutes 5 cycles	

● Mechanical Characteristics:

No.	Item	Test condition	Evaluation standard
1	Solder ability	Pin terminals are immersed in rosin for 5 seconds and then immersed in solder bath of 270±5℃ for 3±1s.	90% min. lead terminals shall be wet with solder.(Except the edge of terminal)
2	Soldering heat resistance	Pin terminals are immersed up to 1.5mm from part's body in solder bath of 260±5℃ for 10±1s.Refer to GB2423.28.	No interference in operation
3	Vibration	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 1hours per plane in each three mutually perpendicular planes for a total time of 3hours.	The SPL should meet specification.
4	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, except the SPL should be in ±10dB compared with initial one.

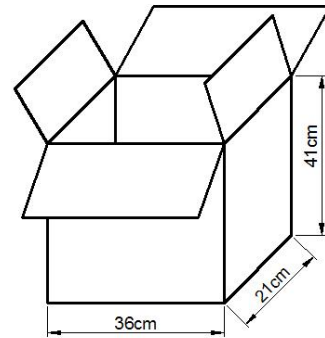
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Packing:



NOTES:

- 1.100 PCS per box
2. 5 boxes per inner carton
3. 500pcs per inner carton
4. Inner carton volume: $17.5 \times 16.5 \times 75\text{cm}$
5. 10 PCS inner cartons per carton
6. Total 5000 PCS carton
7. Volume: $36 \times 21 \times 41\text{cm}$

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