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SPECIFICATION FOR APPROVAL

Description	:	**Magnetic Buzzer**
Specification No.	:	**TKS-7070**
Number Of The Edition	:	**1.6**

CUSTOMER'S APPROVED SIGNATURE		

Approved by	Checked by	Issued by

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A. SCOPE

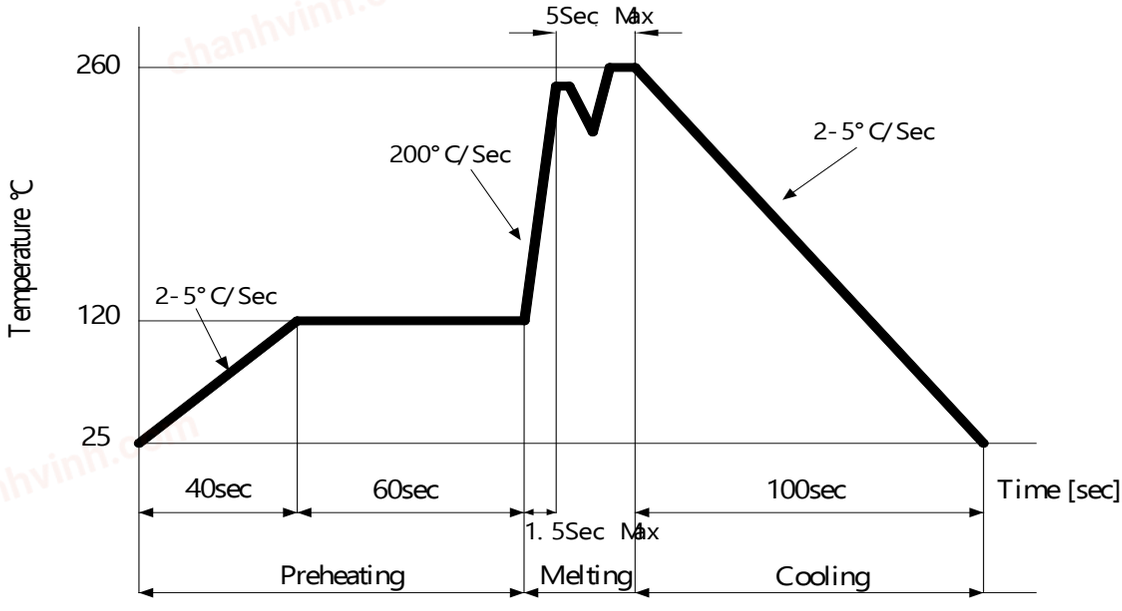
This specification applies magnetic buzzer, **KXG1205C**

B. SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Rated Voltage	V_{DC}	5.0	
2	Operating Volt	V_{DC}	3.0~7.0	
3	Mean Current	mA	Max. 30	
4	Sound Output	dBA	Min.85 (Typical 94)	Distance at 10cm(A-weight free air). Applying rated voltage.
5	Resonant Frequency	Hz	2300 ± 300	
6	Operating Temp.	℃	-40 ~ +85	
7	Storage Temp.	℃	-40 ~ +85	
8	Dimension	mm	φ12.0 × H9.5	See attached drawing.
9	Weight	gram	2.0	
10	Material		PBT+15%Glass (Black)	
11	Terminal		Pin type (鍍化金/Plating Au)	See attached drawing.
12	Environmental Protection Regulation		HSF	

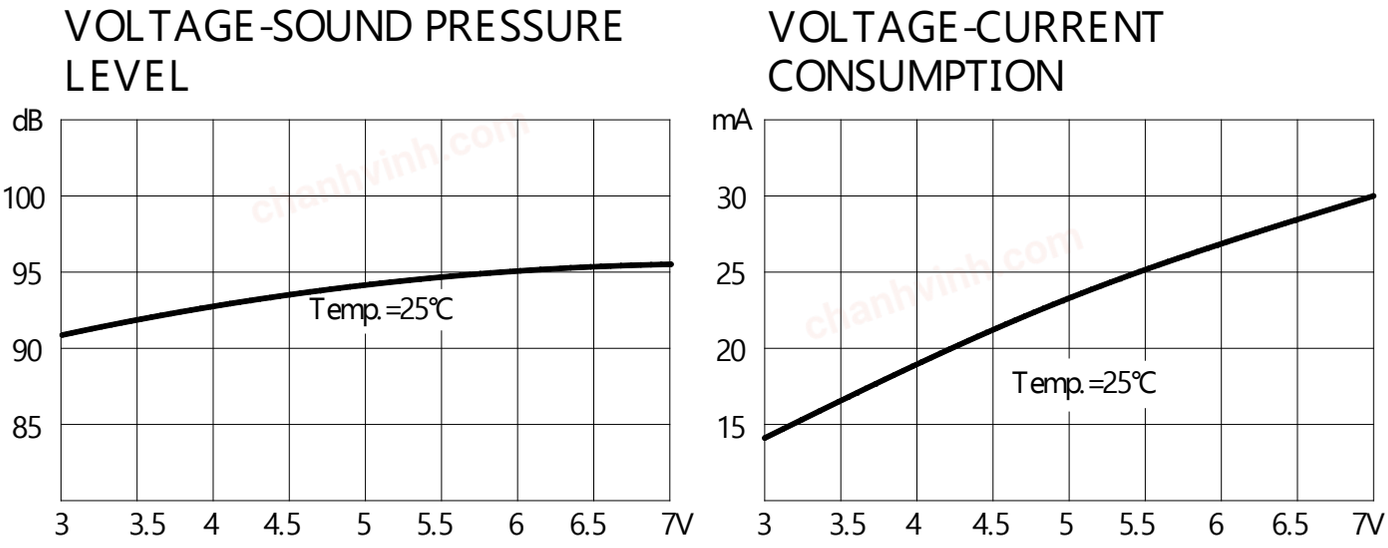
C. SOLDERING SPEC

- MANUAL SOLDERING: 330℃~380℃, WITHIN 5 SECS.
- WAVE SOLDERING: SEE BELOW DIAGRAM

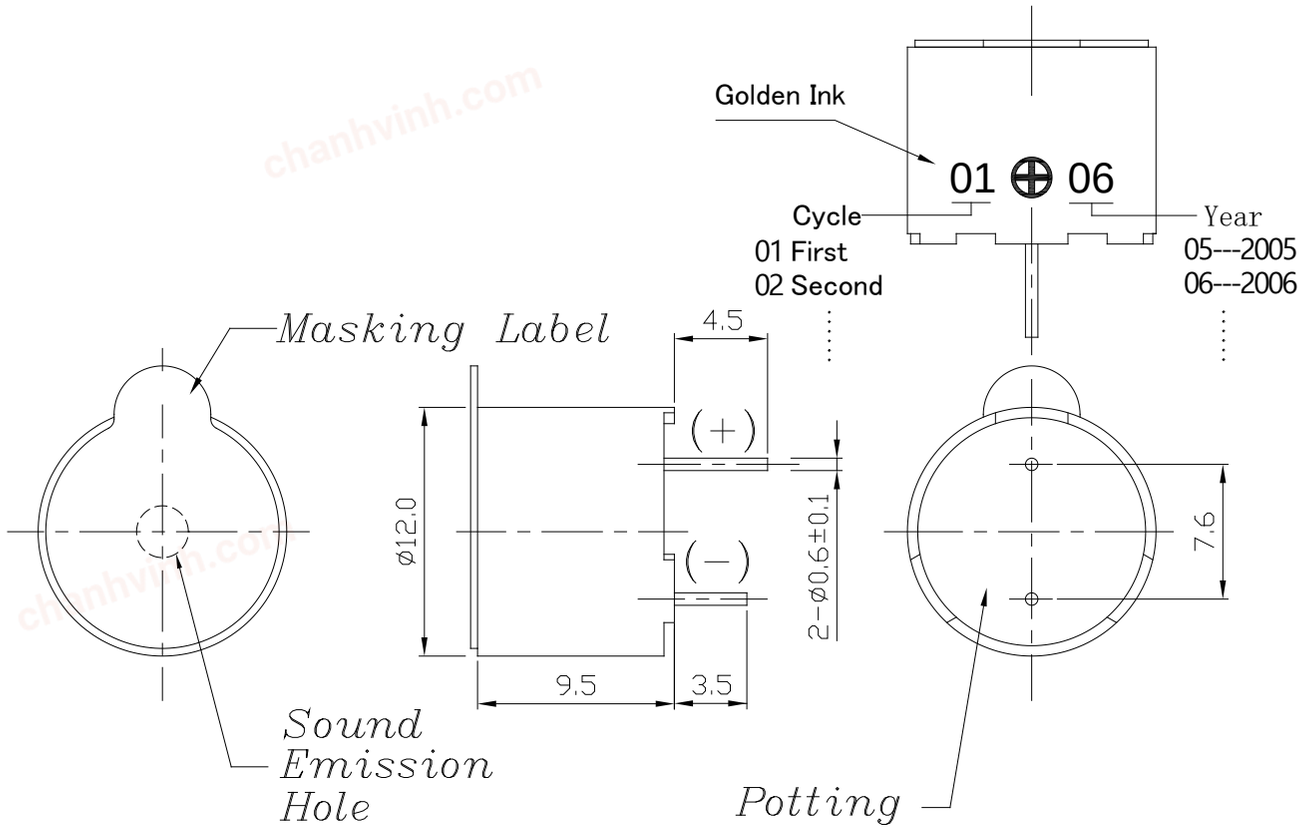


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D. TYPICAL FREQUENCY RESPONSE CURVE



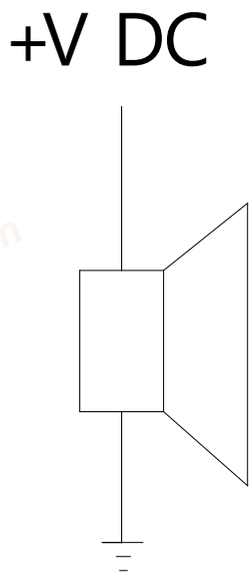
E. APPEARANCE DRAWING



Tol: ± 0.5
Unit: mm

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F. MEASUREMENT METHOD

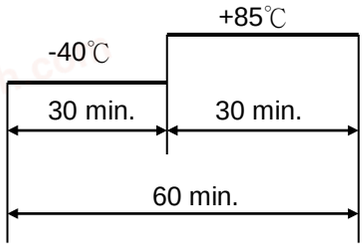
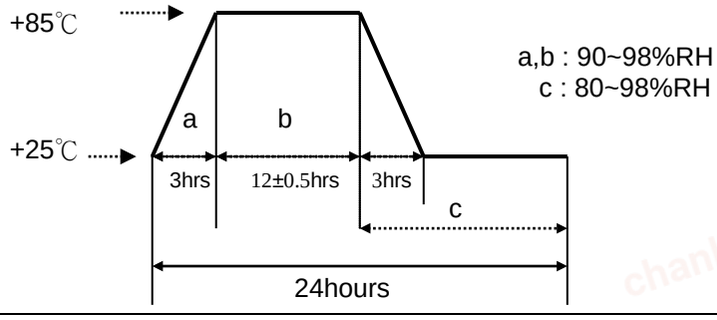


G. MECHANICAL CHARACTERISTICS

No.	Item	Test condition	Evaluation standard
1	Solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5℃ for 3±1 seconds.	90% min. lead terminals shall be wet with solder. (Except the edge of terminal)
2	Soldering Heat Resistance	Lead terminal are immersed up to 1.5mm from sounder's body in solder bath of +260±5℃ for 3±1 seconds.	No interference in operation
3	Terminal Mechanical Strength	The force 10 seconds of 9.8N (1.0kg) is applied to each terminal in axial direction.	No damage and cutting off
4	Vibration	Buzzer shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours.	After the test the part shall meet specifications with-out any damage in appearance and the SPL should be in ±10dBA compared with initial one.
5	Drop test	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times).	

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H. ENVIRONMENT TEST

No.	Item	Test condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +85℃ for 96 hours.	After the test the part shall meet specifications with-out any degradation in appearance and performance except SPL. after 4 hours at +25℃. the SPL should be in ±10dBA compared with initial one.
2	Low temp. test	After being placed in a chamber at -40℃ for 96 hours.	
3	Thermal Shock	The part shall be subjected to 10 cycles. One cycle shall consist of;  	
4	Temp./ Humidity Cycle	The part shall be subjected to 10 cycles. One cycle shall be 24 hours and consist of;  	

I. RELIABILITY TEST

No.	Item	Test condition	Evaluation standard
1	Operating life test	1.Continuous life test The part shall be subjected to 72 hours at +60℃ with 5VDC applied. 2.Intermittent life test A duty cycle of 1 minute on, 1 minutes off, a minimum of 10000 times at room temp.(+25±10℃) with 5VDC applied.	After the test the part shall meet specifications with-out any degradation in appearance and performance except SPL. after 4 hours at +25℃. the SPL should be in ±10dBA compared with initial one.

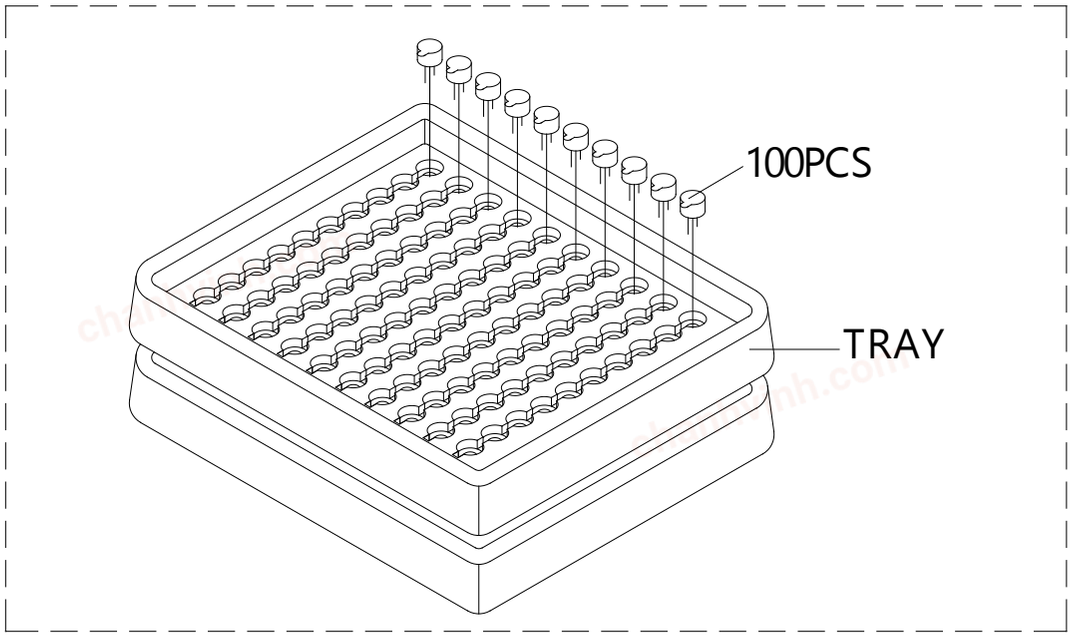
TEST CONDITION.

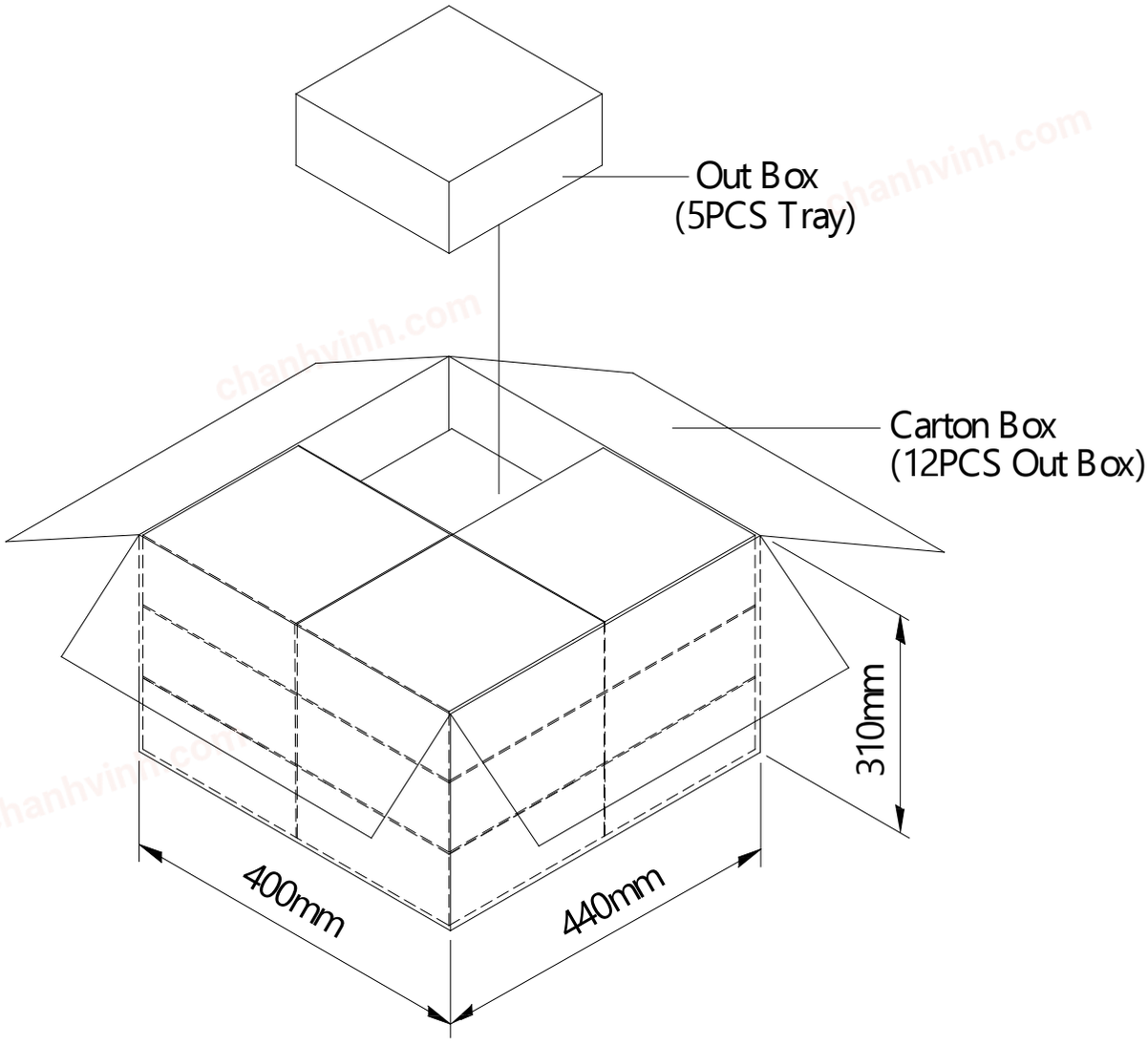
Standard Test Condition : a) Temperature : +5 ~ +35℃ b) Humidity : 45-85% c) Pressure : 860-1060mbar

Judgment Test Condition : a) Temperature : +25 ± 2℃ b) Humidity : 60-70% c) Pressure : 860-1060mbar

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J. PACKING STANDARD





Tray	184mmx184mmx23mm	10x10PCS=100PCS
Out Box	200mmx190mmx100mm	5LAYERx100PCS=500PCS
Carton Box	440mmx400mmx310mm	500PCSx12=6,000PCS