悦馨电子
YUEXIN ELECTRONICS

specification

SHEET FOR APPROVAL

Part Name: YX-SMD1203

Type: Magnetic Sounder

Customer Name:

Number of the Edition:

	Approved by	Checked by	Issued by
Signature		张爱琴	
Date			

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悦馨电子
YUEXIN ELECTRONICS

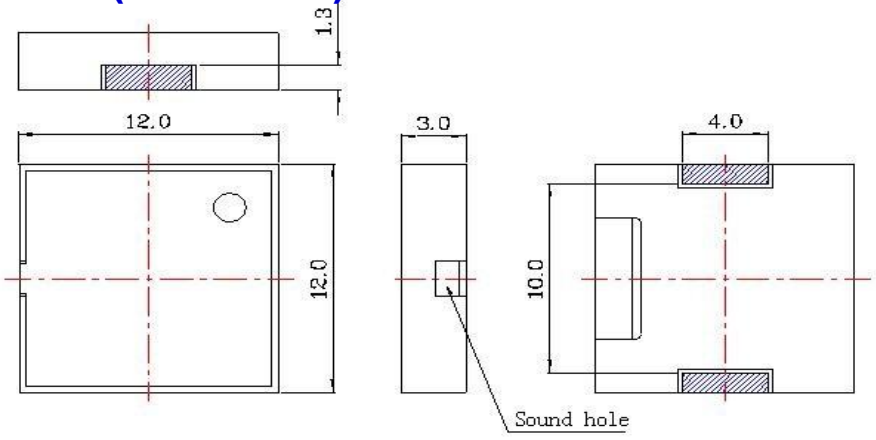
Magnetic Sounder

YX-SMD1203

Electrical Characteristics

Model No	Unit	Specification	Condition
Oscillation Frequency	Hz	4000	Square Wave
Operating Voltage	Vp-p	1~25	
Rated Voltage	Vp-p	3	
Current Consumption	mA	MAX. 9	at Rated Voltage
Sound Pressure Level	dB	MIN. 75	at 10cm at Rated Voltage
Electrostatic Capacity	pF	16000±30%	at 100Hz 1V
Operating Temperature	℃	-20~ +70	
Storage Temperature	℃	-30 ~ +80	
Dimension	mm	12 x 12 x H3	See appearance drawing
Weight (MAX)	gram	0.4	
Housing Material		LCP(Black)	
Environmental Protection Regulation		RoHS	

Dimensions : (Unit: mm)



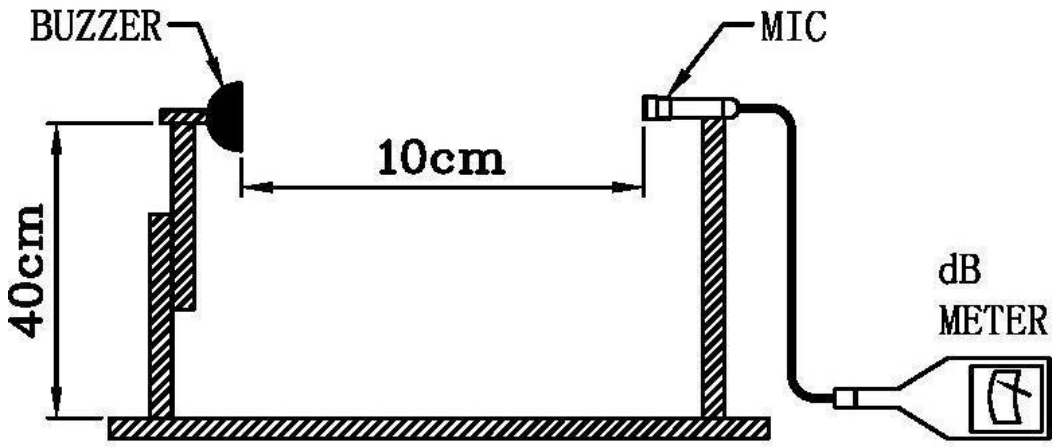
A:TESTING METHOD

Standard Measurement :

Temperature:25±2℃ Humidity:45-65%

Acoustic Characteristics:

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below

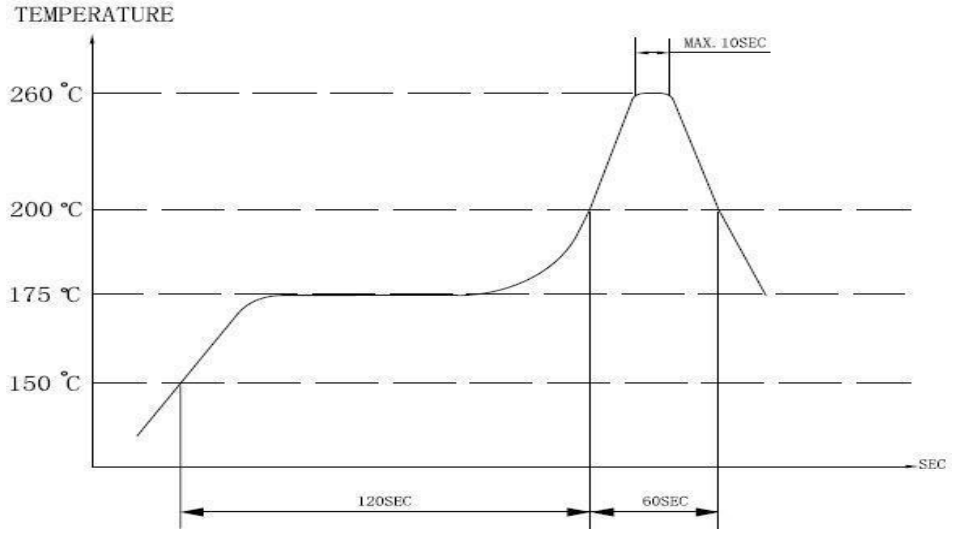


In the measuring test, buzzer is placed as follows:

B: SOLDERING CONDITION

(1)Recommendable reflow soldering condition is as follows (Reflow soldering is twice)

Note: It is requested that reflow soldering should be executed after heat of product goes down to normal.



Heat resistant line
Used when heat resistant reliability test is performed

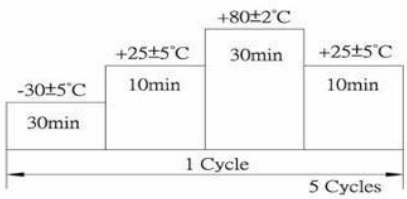
(2)Manual soldering

Manual soldering temperature 350℃ within 5 sec

C. MECHANICAL CHARACTERISTICS

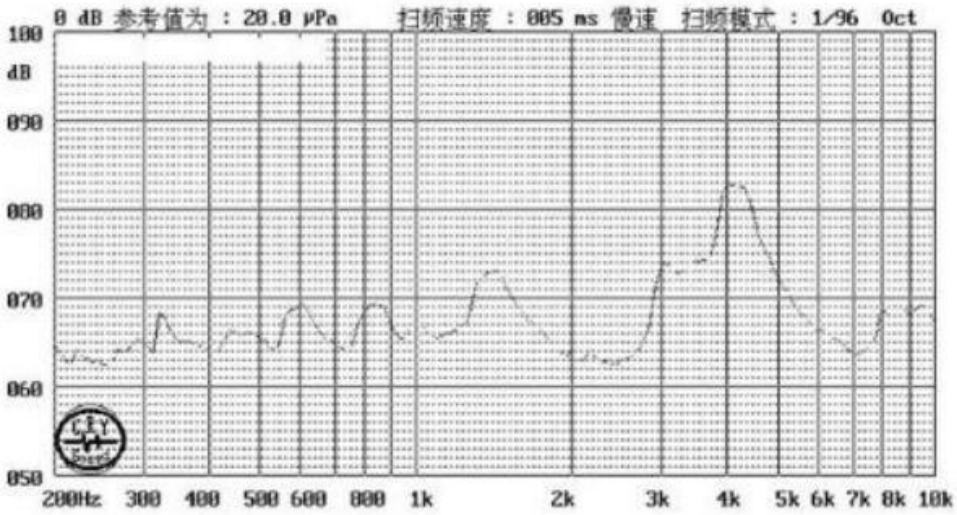
NO.	item	Test Condition	Evaluation standard
1	Solder ability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5 for 3±1 seconds.	90% min. lead terminals shall be wet with solder. (Except the edge of terminal)
2	Soldering Heat Resistance	Lead terminal are immersed up to 1.5mm from sounder's body in solder bath of +300±5 for 3± 0.5 seconds or +260±5 for 10±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 0.75mm with 10 to 55hz band of vibration frequency to each of 3per-pendicular directions for 0.5 hours.	The value of oscillation frequency/ current consumption should be in 10% compared with initial ones .The SPL should be in ± 10dB compared with initial one.
5	Drop test	The part only shall be dropped from a height of 70cm onto a 10mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times).	

D. ENVIRONMENT TEST

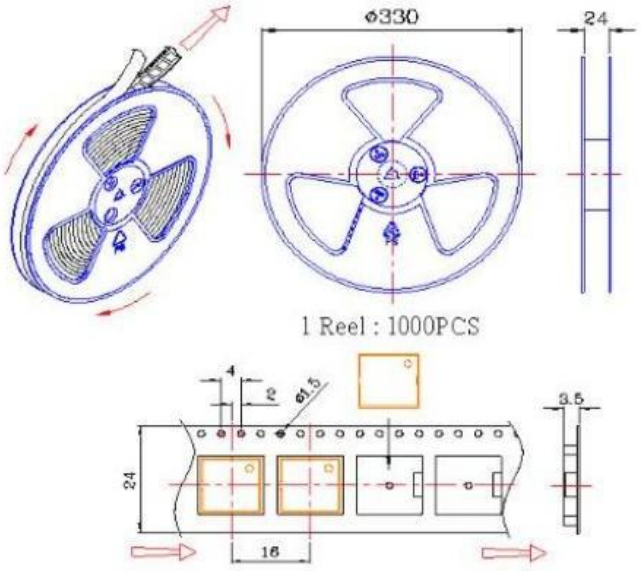
NO.	item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +80 for 96 hours	Being placed for 4 hours at +25 , buzzer shall be measured. The value of oscillation frequency/ current consumption should be in ± 10% compared with initial ones .The SPL should be in ±10dB compared with initial one.
2	Low temp. test	After being placed in a chamber with –30 for 96 hours	
3	Humidity test	After being placed in a chamber at +40 and 90 5% relative humidity for 96 hours	
4	Temp. cycle test	The part shall be subjected to 5 cycles. One cycle shall be consist of: 	

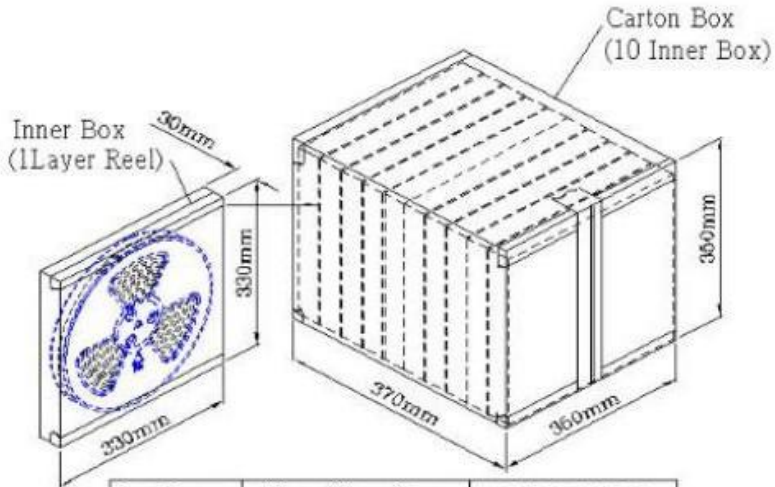
F.FREQUENCY RESPONSE:

Applied voltage:5.0Vp-p,squae wave:1/2duty Distance for measurement:10cm with recommended cavity



G. PACKING FORMAT (UNIT: mm)





Inner Box	330mmx330mmx30mm	1x1000PCS=1000PCS
Carton Box	350mmx350mmx370mm	10x1000PCS=10,000PCS