

SPECIFICATION FOR APPROVAL

Customer :

Description : Magnetic Transducer

Soberton Part No. : ST-025BLA

Date : 2008-12-18

Customer Model No. :

Date of Approval	
Authorization Signature	



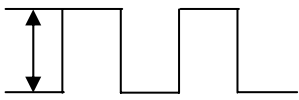
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Approved	Checked	Design
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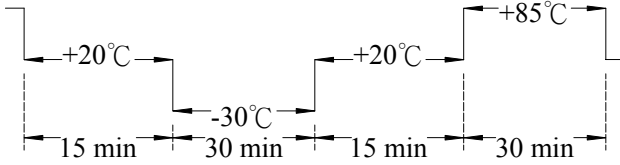
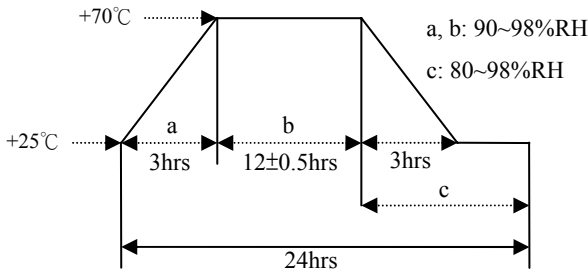
This specification applies magnetic buzzer, ST-025BLA

B:SPECIFICATION

■ Test condition: TEMP=+25±2 °C Related humidity=45~60±5% Air pressure:860-1060mbar

NO.	Item	Unit	Specification	Condition
1	Rated Voltage	Vo-p	3.6	
2	Operating Voltage	Vo-p	2.5 - 4.5	
3	Mean Current	mA	Max. 100	Applying rated voltage & rated frequency, square wave 1/2 duty
4	Coil Resistance	Ω	16 ± 3	
5	Sound Output	dBA	80/10cm	Distance at 10cm(A-weight free air), Applying rated voltage & rated frequency, square wave, 1/2 duty
6	Rated Frequency	Hz	2500	
7	Operating Temp	°C	-30-+85	
8	Storage Temp	°C	-40-+85	
9	Dimension	mm	7.5 × 7.5 × 2.5	See attached drawing.
10	Weight	gram	0.8	
11	Material		LCP (Black)	
12	Terminal		SMD type (Plating Sn)	See attached drawing
13	Environmental Protection Regulation		RoHS	
14	Storage life	month	3	3 months preservation at room temp(25±3°C), Humidity40%

C:ENVIRONMENT TEST

No.	Item	Test condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +85°C for 96 hours.	After the test the part shall meet specifications without any degradation in appearance and performance except SPL. after 4 hours at +25°C, The SPL shall be in ± 10 dBA compared with initial one.
2	Low temp. test	After being placed in a chamber at -30°C 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 cycle and consist of; 	

D: RELIABILITY TEST

No.	Item	Test condition	Evaluation standard
1	Operating life test	<p>□ Applying rated voltage, rated frequency, square wave, 1/2 duty cycle :</p> <p>Ordinary temperature The part shall be subjected to 96 hours at room temperature.</p>	After the test the part shall meet specifications without any degradation in appearance and performance except SPL. after 4 hours at +25°C, The SPL shall be in ± 10 dBA compared with initial one.

TEST CONDITION.

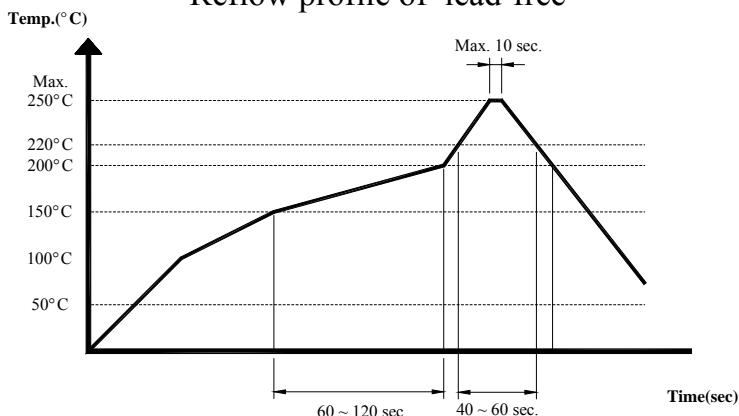
Standard Test Condition : a)Temperature: +5~+35°C b)Humidity:45~85% c)Pressure: 860~1060mbar

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

E:MECHANICAL CHARACTERISTICS

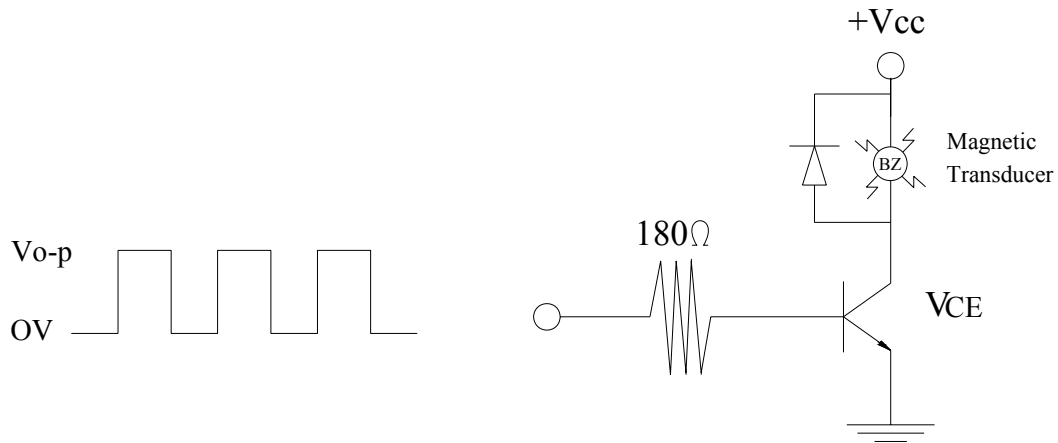
No	Item	Test condition	Evaluation standard
1	Solderability	Lead terminal are immersed in rosin for 5 seconds and then immersed in Solder bath of $+260\pm 5^{\circ}\text{C}$ for 3 ± 0.5 second	90% min. lead terminals shall be wet with solder
2	Soldering Heat Resistance	Lead terminal are immersed in soldering bath of $+260\pm 5^{\circ}\text{C}$ for 3 ± 0.5 Second.	
3	Iron Soldering Heat Resistance	Lead terminal are soldering of $+350\pm 5^{\circ}\text{C}$, 2.5 ± 0.5 Second.	
4	Terminal Mechanical Strength	Apply the terminal with 9.8N(1kg) strength for 10 ± 1 sec.	No interference in operation
5	Vibration	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 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 axis in each three axes(X,Y,Z),Total 6 hours.	No damage and cutting off
6	Drop test	The part only shall be dropped from a height of 75cm onto a wooden board 1 times.	After the test the part shall meet specifications without any damage in appearance and performance except SPL. The SPL shall be in ± 10 dBA compared with initial one.

*** Reflow profile of lead-free**

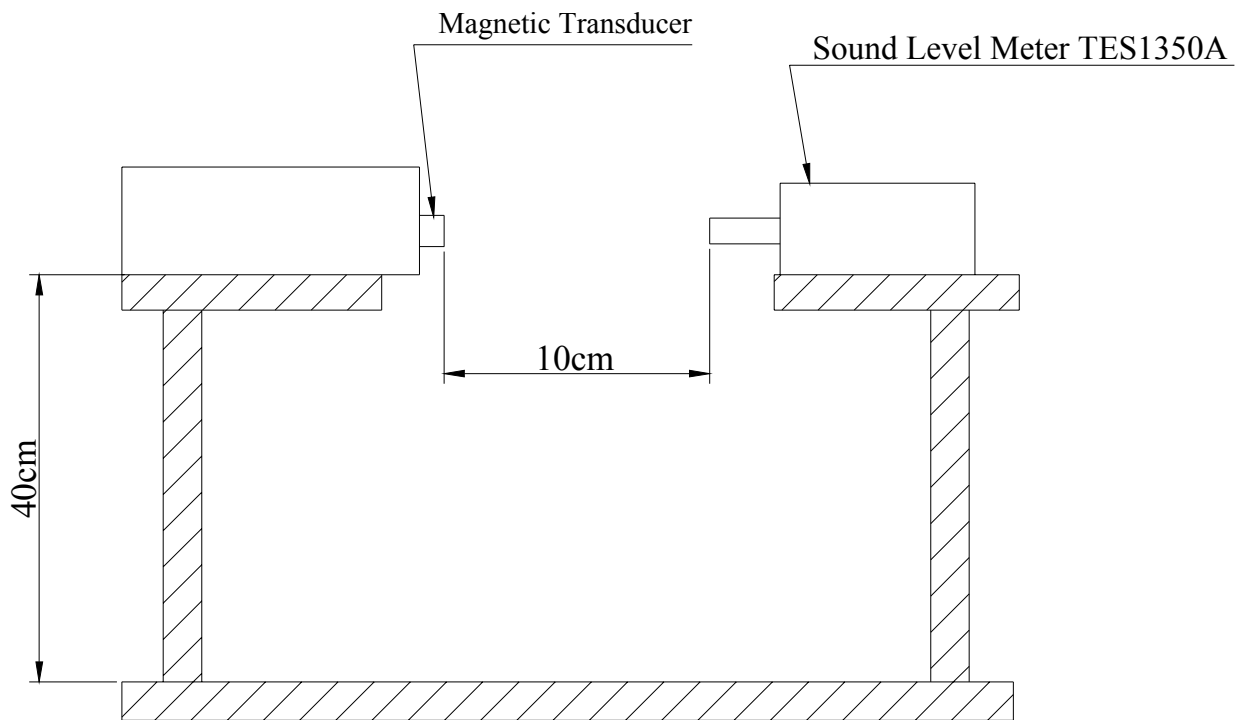


Recommendable reflow soldering condition is as follows.
 Note 1: It is requested that reflow soldering should be executed after heat of product goes down to normal temperature.
 Note 2: Peak reflow temperature of 250°C Max.10 sec., with a maximum duration of 40-60 sec. between 220°C and 250°C

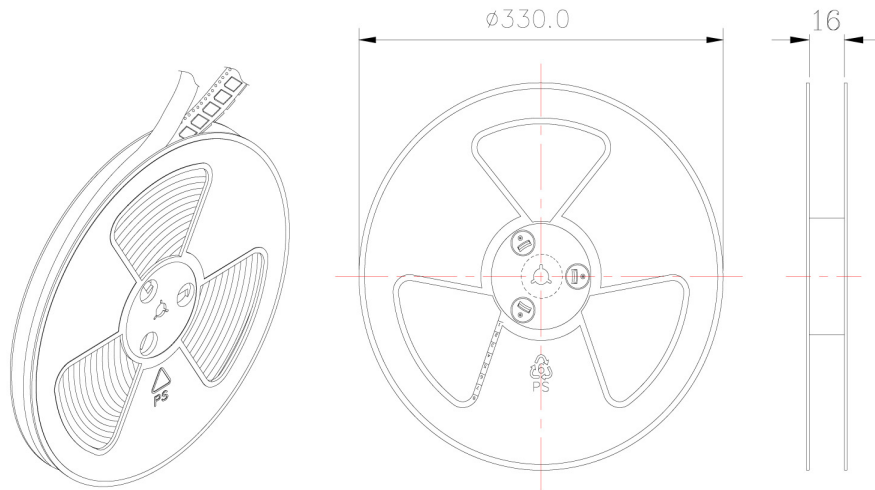
F: MEASUREMENT METHOD



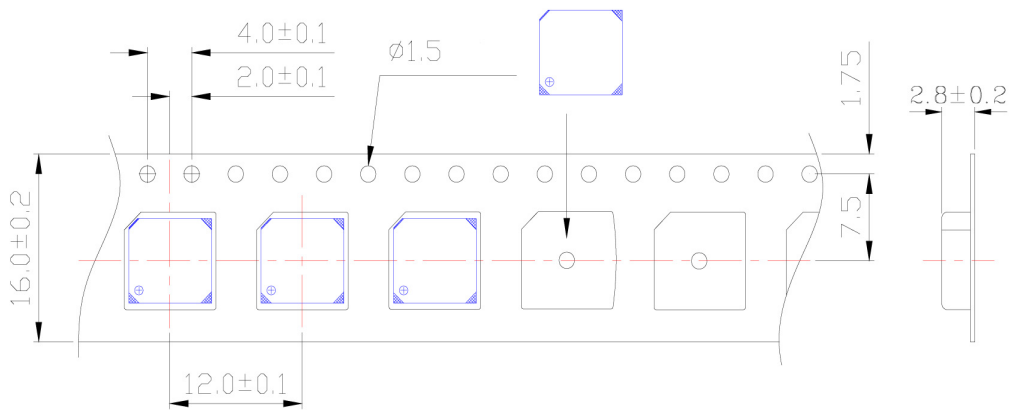
G: INSPECTION FIXTURE



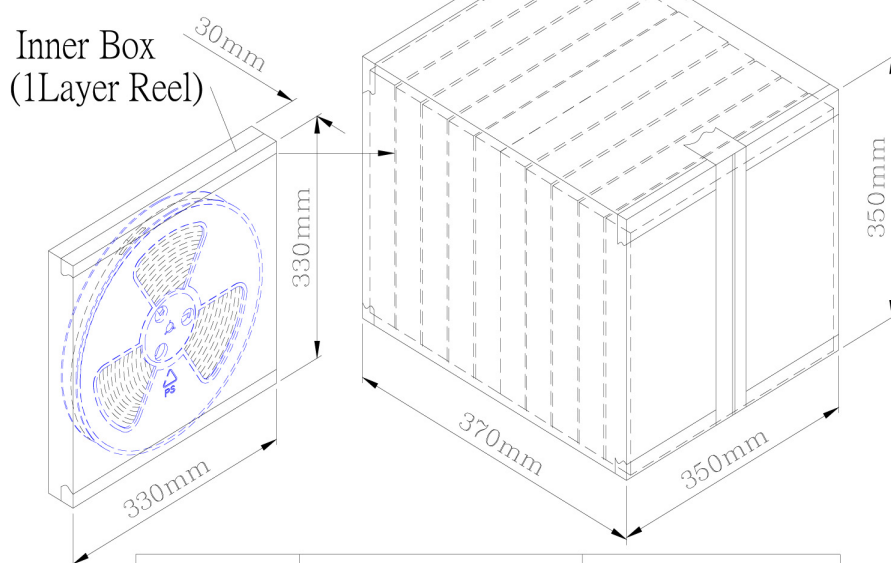
H: PACKING



1 Reel : 2000PCS



Carton Box
(10 Inner Box)



Inner Box	330mmx330mmx30mm	1x2000PCS=2000PCS
Carton Box	350mmx350mmx370mm	10x2000PCS=20,000PCS

