SPECIFICATION FOR APPROVAL

Customer:

Description: Magnetic Transducer

Soberton Part No. : ST-025BT

Date: 2008-12-18

Customer Model No. :

Date of Approval	
Authorization	
Signature	



211 N. First Street Minneapolis, MN. 55401 612-849-6205

Http://www.soberton.com E-mail: info@soberton.com

Approved	oved Checked Desig	
Ryan	Wang Wei Rong	Xu Hong Wei
2008/12/18	2008/12/18	2008/12/18

This specification applies magnetic buzzer, ST-025BT

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	Vo-p
2	Operating Voltage	Vo-p	2.5 - 4.5	0V <u>+</u>
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	85/10cm	Distance at 10cm(A-weight free air), Applying rated voltage & rated frequency, square wave,1/2duty
6	Rated Frequency	Hz	3100	
7	Operating Temp	$^{\circ}\!\mathbb{C}$	-30-+85	
8	Storage Temp	$^{\circ}\!\mathbb{C}$	-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	See attached drawing
13	Environmental Protection Regulation		RoHS	
14	Storage life	month	3	3 months preservation at room temp(25±3°C), Humidity40%

No.	Item	Test condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +85°C for 96 hours.	
2	Low temp. test	After being placed in a chamber at -30°C for 96 hours.	A 0
3	Thermal shock	The part shall be subjected to 10 cycles. One cycle shall consist of; -+20°C30°C30°C30°Min	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.
4	Temp. / Humidity Cycle	The part shall be subjected to 10 cycle and consist of; +70°C a, b: 90~98%RH c: 80~98%RH +25°C a b 3hrs 12±0.5hrs 3hrs c 24hrs	Offic.

D: RELIABILITY TEST

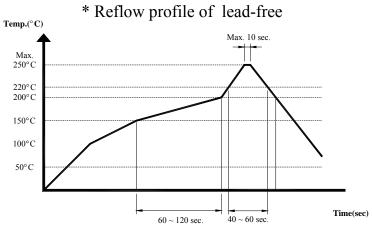
No.	Item	Test condition	Evaluation standard
1	Operating life test	□ Applying rated voltage, rated frequency, square wave, 1/2 duty cycle: Ordinary temperature The part shall be subjected to 96 hours at room temperature.	After the test the part shall meet specifications without any degradation in appearance 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

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±5°C for 3±0.5 second	90% min. lead terminals shall be
2	Soldering Heat Resistance	Lead terminal are immersed in soldering bath of $+260\pm5$ °C for 3 ± 0.5 Second.	wet with solder
3	Iron Soldering Heat Resistance	Lead terminal are soldering of +350±5°C, 2.5±0.5 Second.	No interference in operation
4	Terminal Mechanical Strength	Apply the terminal with 9.8N(1kg) strength for 10±1 sec.	No damage and cutting off
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.	After the test the part shall meet specifications without any damage in appearance and performance except
6	Drop test	The part only shall be dropped from a height of 75cm onto a wooden board 1 times.	SPL. The SPL shall be in ± 10 dBA compared with initial one.

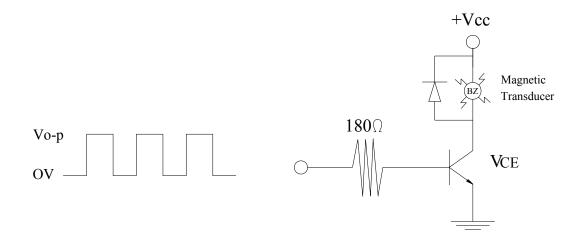


Recommendable reflow soldering condition is as follows.

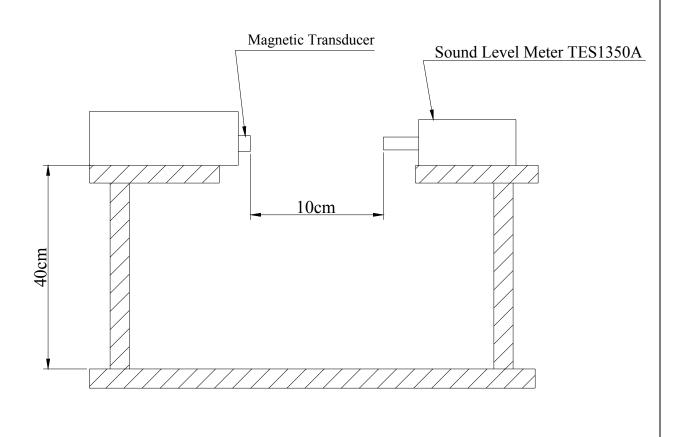
Note 1: It is requested that reflow soldering should be executed after heat of product goes down to normal temperature.

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

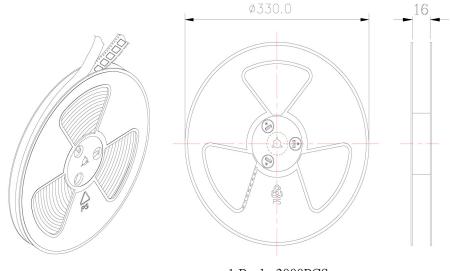
F: MEASUREMENT METHOD



G: INSPECTION FIXTURE



H: PACKING



1 Reel: 2000PCS

