

SPECIFICATION FOR APPROVAL

Customer :

Description : Magnetic Transducer

SOBERTON PART NO. **WST-1203UX**

Date : 2008-10-06

Customer Model No. :

Date of Approval	
Authorization Signature	



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Approved	Checked	Design
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This specification applies magnetic transducer, WST-1203UX

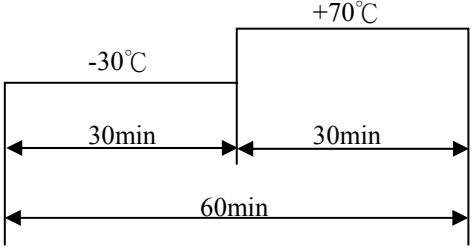
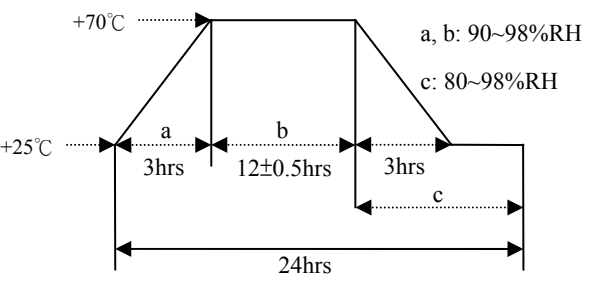
B:SPECIFICATION

■ Test condition: TEMP=+25±2 °C Related humidity=65±5% Air pressure:860-1060mbar

NO.	Item	Unit	Specification	Condition
1	Rated Voltage	V _{DC}	3.0	
2	Operating Voltage	V _{DC}	2.0 – 4.0	
3	Mean Current	mA	Max. 30	Applying rated voltage.
4	Sound Output	dBA	82 at 10cm	Distance at 10cm(A-weight free air), Applying rated voltage.
5	Rated Frequency	Hz	2300±300	
6	Operating Temp	°C	-20 ~ +60	
7	Storage Temp	°C	-30 ~ +70	
8	Dimension	mm	Φ 12 × H 7.5	See attached drawing.
9	Weight	gram	2.0	
10	Material		PPO (Black)	
11	Terminal		Pin type	See attached drawing
12	Environmental Protection Regulation		RoHS Compliant	
13	Storage life	month	3	3 months preservation at room temp(25±3°C), Humidity40%

C:ENVIRONMENT TEST

3/7

No.	Item	Test condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +70°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	□ 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.

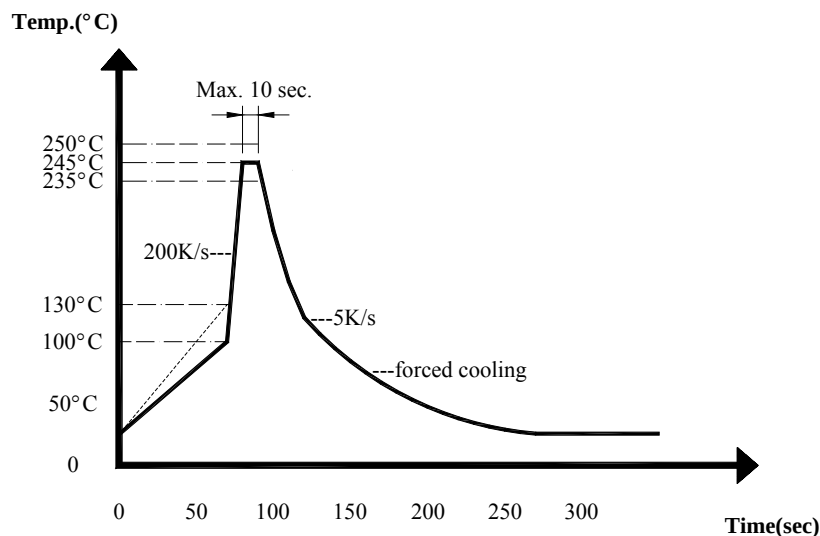
TEST CONDITION.

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	Solder ability	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	95% 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 5 ± 0.5 Second.	No interference in operation
3	Hand Soldering Heat Resistance	Lead terminal are soldering of $+350\pm 5^{\circ}\text{C}$, 2.0 ± 0.5 Second.	
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 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).	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.
6	Drop test	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 1 times.	

* Wave Soldering profile of lead-free

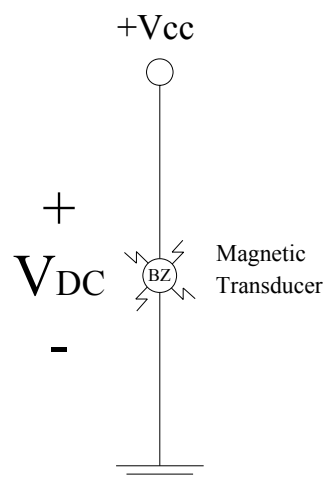


Recommendable wave soldering condition is as follows.

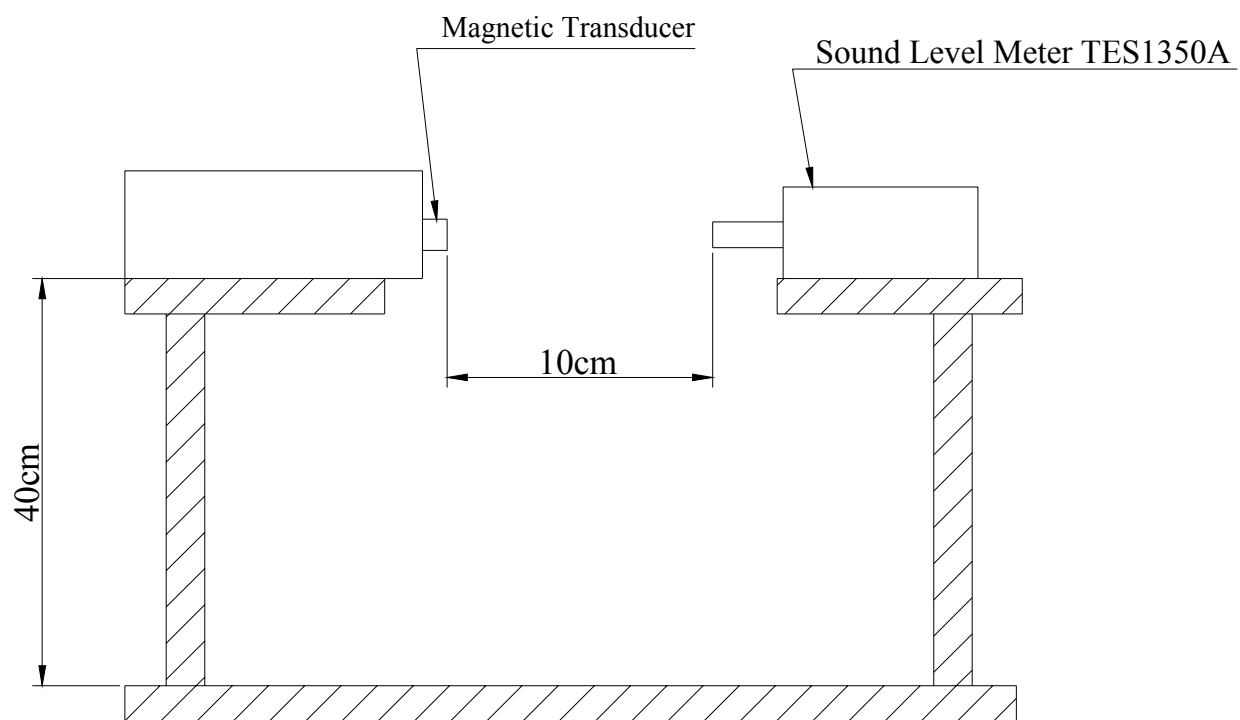
Note 1: It is requested that wave soldering should be executed after heat of product goes down to normal temperature.

Note 2: Peak wave temperature of $235^{\circ}\text{C} \sim 250^{\circ}\text{C}$ maximum of 10 sec. .

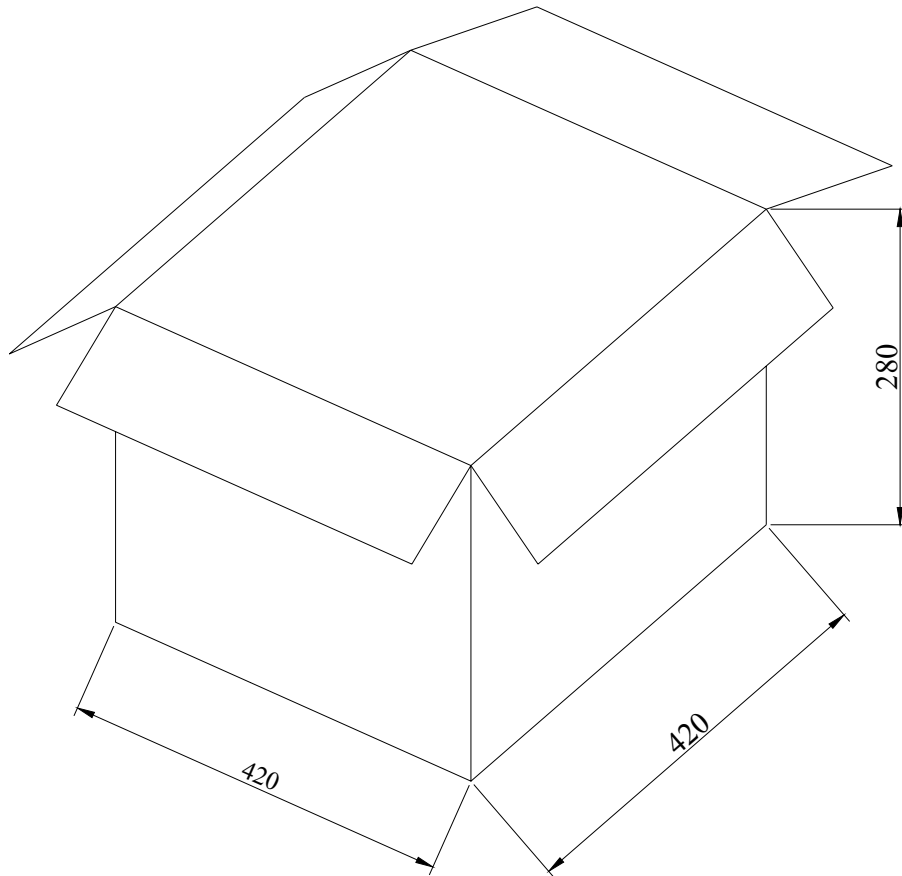
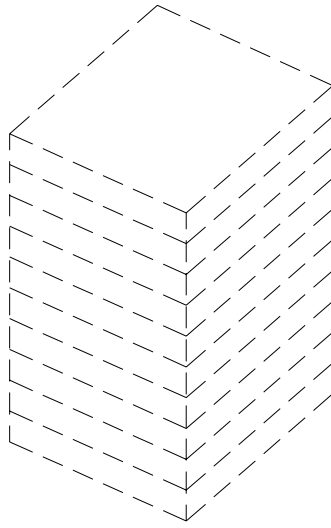
F: MEASUREMENT METHOD



G: INSPECTION FIXTURE



H: PACKING



Packing	Dimension (mm)	Quantity (piece)
1 Tray	190 * 190 * 25	100 pcs
10 Tray	210 * 210 * 220	1,000 pcs
1 Carton	430 * 430 * 250	4,000 pcs

