

SPECIFICATION FOR APPROVAL

Customer :

Description : Magnetic Transducer

Soberton Part No. : WT-1205

Date : 2008-10-13

Customer Model No. :

Date of Approval	
Authorization Signature	



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

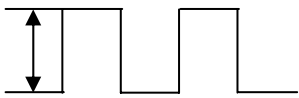
[Http://www.soberton.com](http://www.soberton.com) E-mail : info@soberton.com

Approved	Checked	Design
Ryan 2008/10/01	Wang Wei Rong 2008/10/01	Xu Hong Wei 2008/10/01

This specification applies magnetic transducer, WT-1205

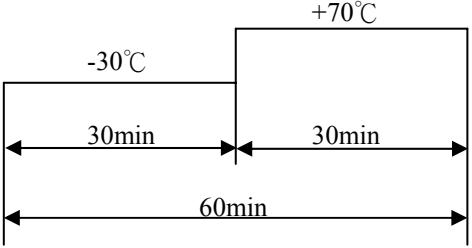
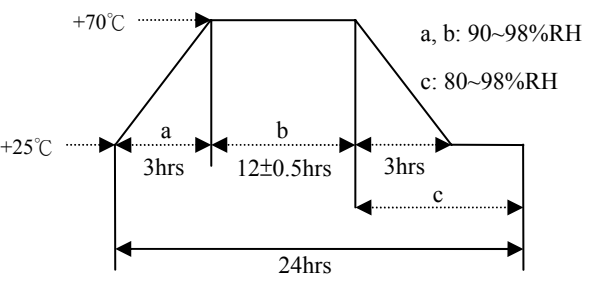
B:SPECIFICATION

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

NO.	Item	Unit	Specification	Condition
1	Rated Voltage	Vo-p	5.0	
2	Operating Voltage	Vo-p	4.0 - 6.0	
3	Mean Current	mA	Max. 40	Applying rated voltage & rated frequency, square wave 1/2 duty
4	Coil Resistance	Ω	47 ± 15%	
5	Sound Output	dBA	87 at 10cm	Distance at 10cm(A-weight free air), Applying rated voltage & rated frequency, square wave, 1/2 duty
6	Rated Frequency	Hz	2400	
7	Operating Temp	°C	-20 ~ +70	
8	Storage Temp	°C	-30 ~ +80	
9	Dimension	mm	Φ 12.0 × H 9.8	See attached drawing.
10	Weight	gram	2.0	
11	Material		PBT (Black)	
12	Terminal		Pin type	See attached drawing
13	Environmental Protection Regulation		RoHS Compliant	
14	Storage life	month	3	3 months preservation at room temp(25±3°C), Humidity40%

C:ENVIRONMENT TEST

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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	<p>The part shall be subjected to 10 cycles. One cycle shall consist of;</p> 	
4	Temp. / Humidity Cycle	<p>The part shall be subjected to 10 cycle and consist of;</p> 	

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

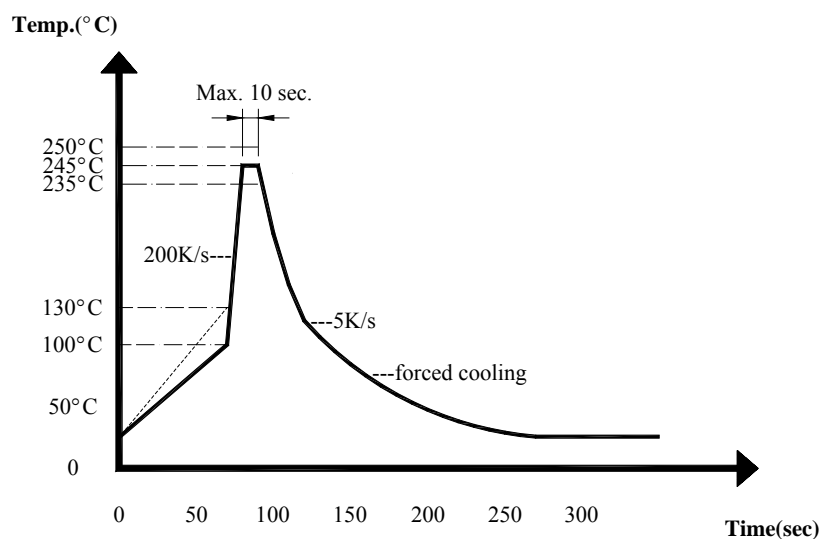
Judgment Test Condition :a)Temperature:+25±2°C b)Humidity:60~70% c)Pressure: 860~1060mbar

E:MECHANICAL CHARACTERISTICS

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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

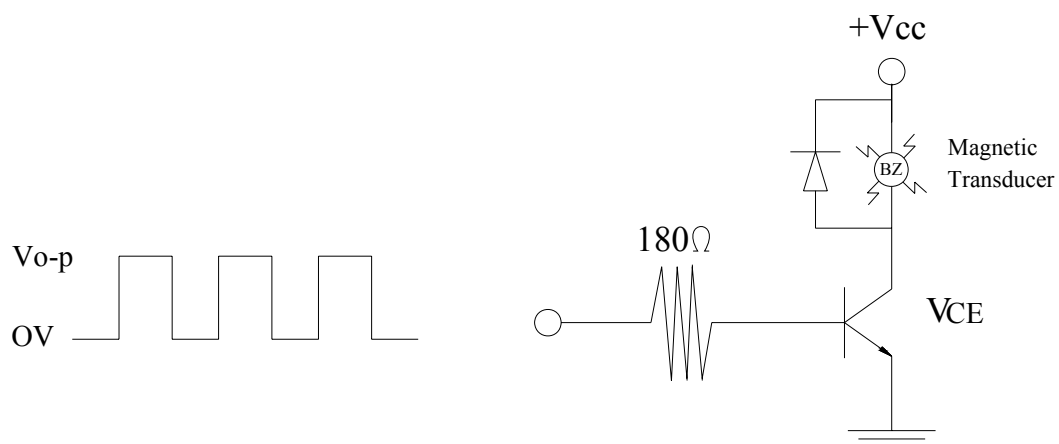


Recommendable wave soldering condition is as follows.

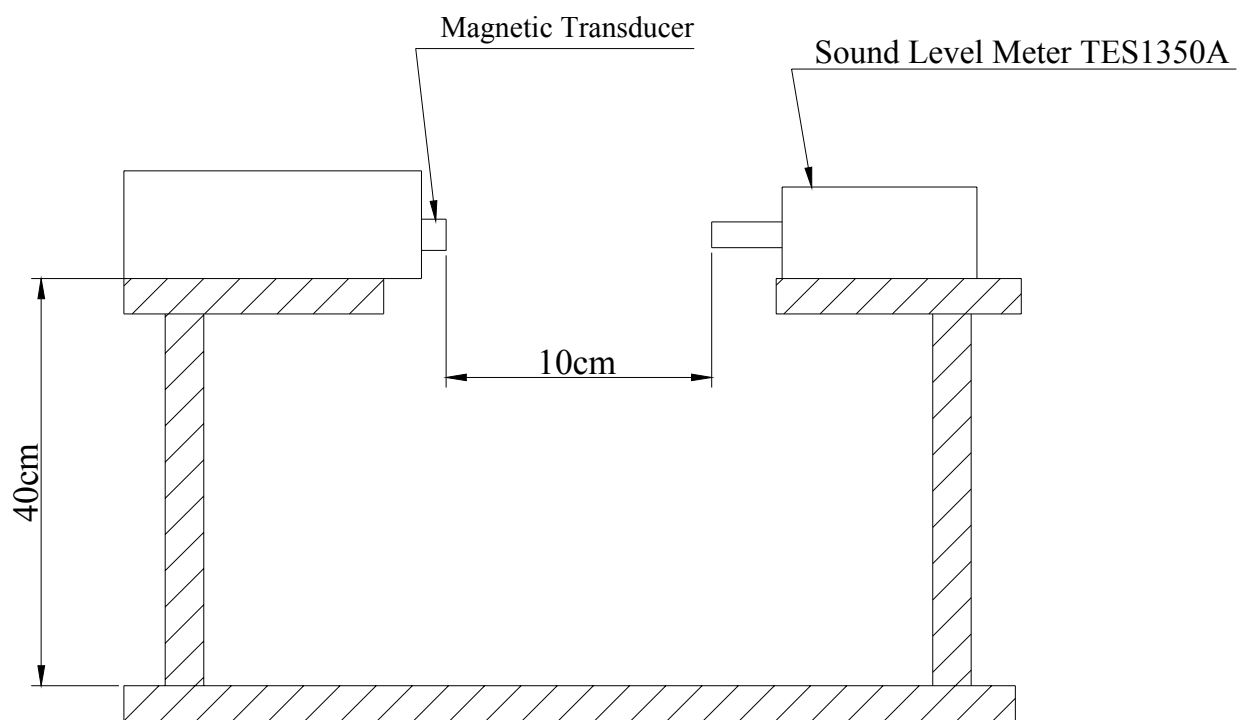
Note 1: It is requested that wave soldering should be executed after heat of product goes down to normal temperature.

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

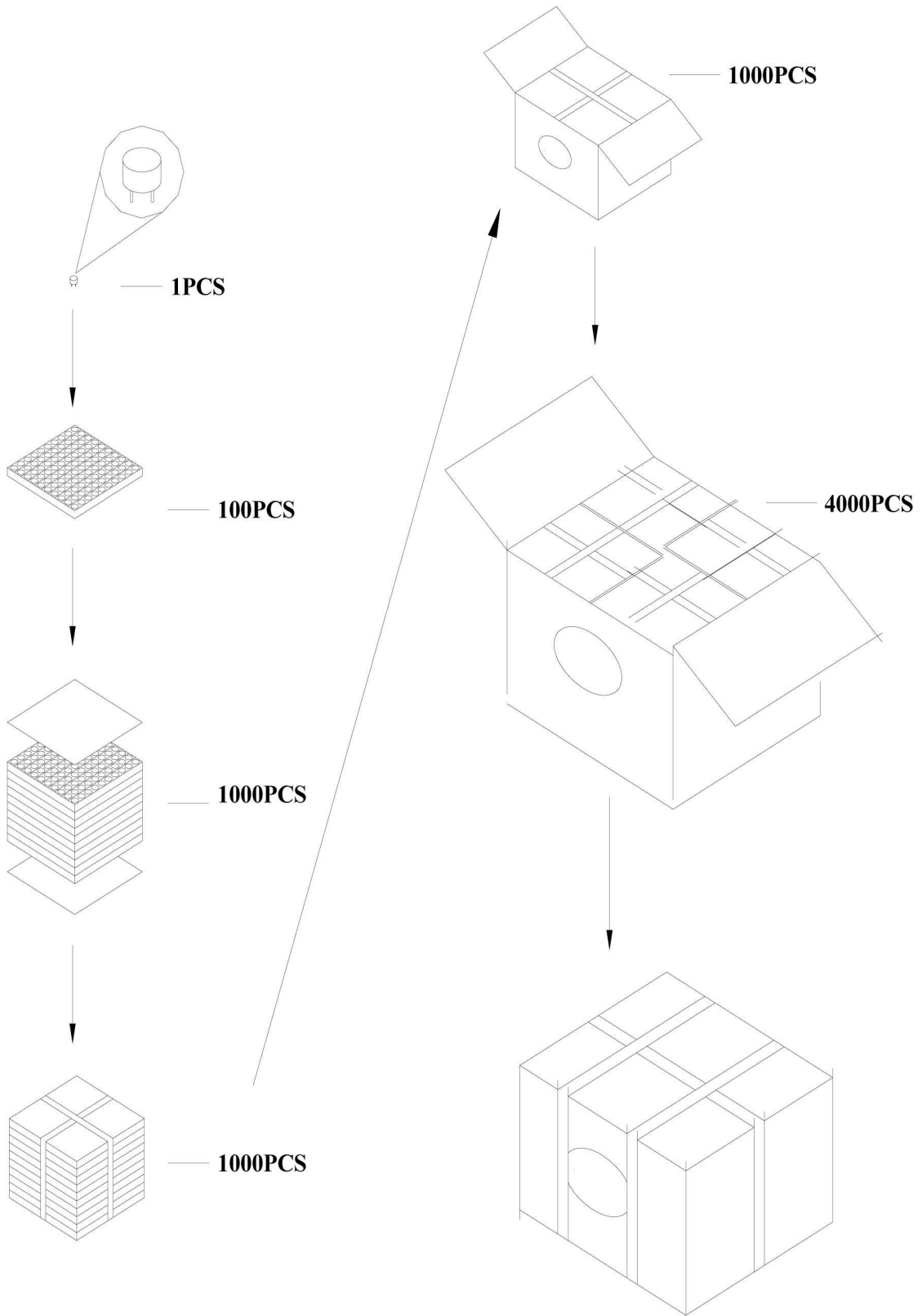
F: MEASUREMENT METHOD



G: INSPECTION FIXTURE

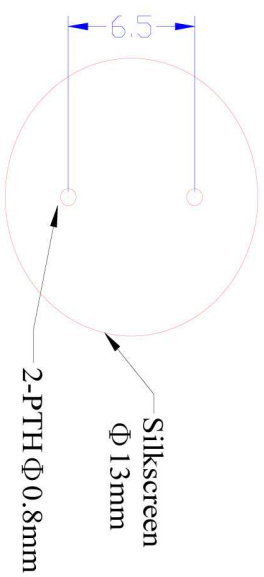




H:



	190x190x25	100
	210x210x220	1000
	430x430x250	4000

Tolerance: ± 0.5



					
MODEL NO.	WT-1205				
DR.		SCALE	1/1	TITLE	Magnetic Transducer
CHK.		SHEET		MATERIAL	PBT
APP.		UNIT	mm	FINISH	
				PART NO.	
				DWG. NO.	
					
5					
4					
3					
2					
1					
NO.	DATE	ECN. NO.			