mer :	No. :
ion :	Approval Date :
Part No. :	ERP No. ERP :
SP	PECIFICATION
Product Description :	Magnetic Buzzer
	Magnetic Buzzer ST-0503
Product Model :	Soberton File Publish Sign
Product Model : Customer Approval Status	Soberton File Publish Sign
Product Model : Customer Approval Status Dsg'd :	ST-0503 Soberton File Publish Sign
Product Model : Customer Approval Status Dsg'd : Chk'd :	ST-0503 Soberton File Publish Sign Edition : B
Product Model : Customer Approval Status Dsg'd : Chk'd : App'd :	ST-0503 Soberton File Publish Sign
Product Model : Customer Approval Status Dsg'd : Chk'd : App'd :	ST-0503 Soberton File Publish Sign Edition : B

Soberton Inc.	Dsg'd	開發部 2016.03.08 李幸容
211 North First Street	Chk'd	開發部 2016.03.08 陳健彰
Minneapolis, MN. 55401	App'd	開發部 2016.03.08 王法睿
612-849-6205		
Web-site: <u>www.soberton.com</u>	Sales	Kimberly Scheerer

Acoustics Product Specification

	Part No:	ST-0503	
	Date :	2016/03/08	
Ī	Edition : B	1 of 5	

A. SCOPE

This specification applies magnetic buzzer,

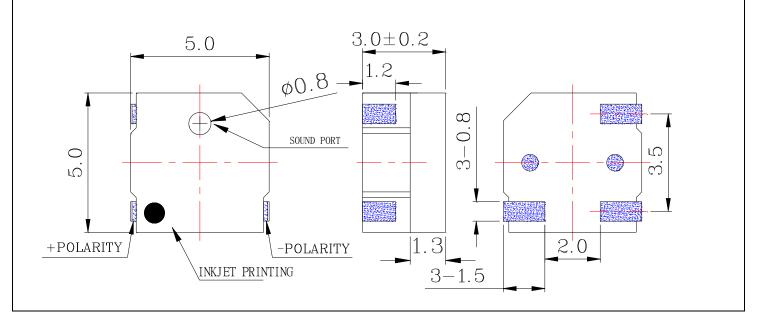
B. SPECIFICATION

No.	Item	Unit	Specification	Condition	
1	Oscillation Frequency	Hz	4000	Vo-p=1/2duty, square wave	
2	Operating Voltage	Vo-p	2~4		
3	Rated Voltage	Vo-p	3		
4	Current Consumption	mA	MAX.110	at Rated Voltage	
5	Sound Pressure Level	dB	MIN. <mark>80</mark>	at 10cm at Rated Voltage	
6	Coil Resistance	Ω	12±3		
7	Operating Temperature	°C	-20 ~ +60		
8	Storage Temperature	°C	$-30 \sim +80$		
9	Dimension	mm	5.0 x 5.0 x H3.0	See appearance drawing	
10	Weight (MAX)	gram	0.6		
11	Housing Material		LCP(Black)		
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing	
13	Environmental Protection Regulation		RoHS		

C. APPEARANCE DRAWING

Tol : ± 0.3

Unit: mm



Acoustics Product Specification

Part No	ST-0503
Date :	2016/03/08
Edition : B	2 of 5

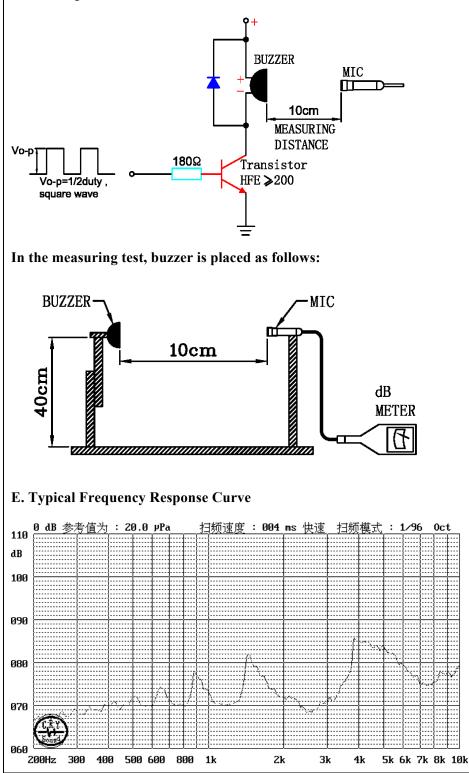
D.TESTING METHOD

Standard Measurement conditions

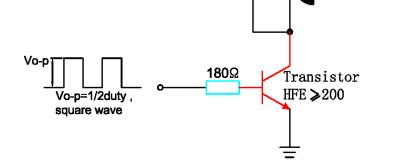
Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

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



Acoustics Product Specification	Part No :	ST-0503
-	Date :	2016/03/08
	Edition : B	3 of 5
Recommend Driving Circuit		
BUZZER		

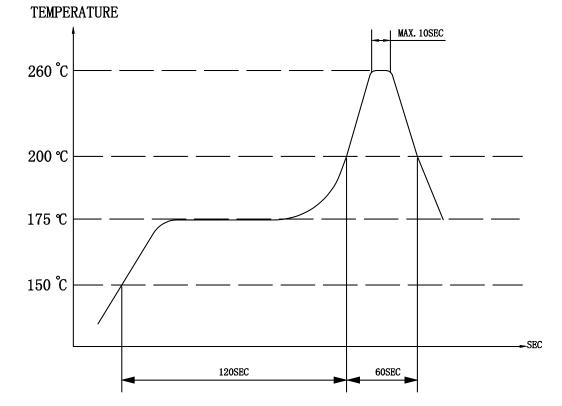


The base current Ib should high enough so that it saturates the collector current of the transistor with the CB load.

G. 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)

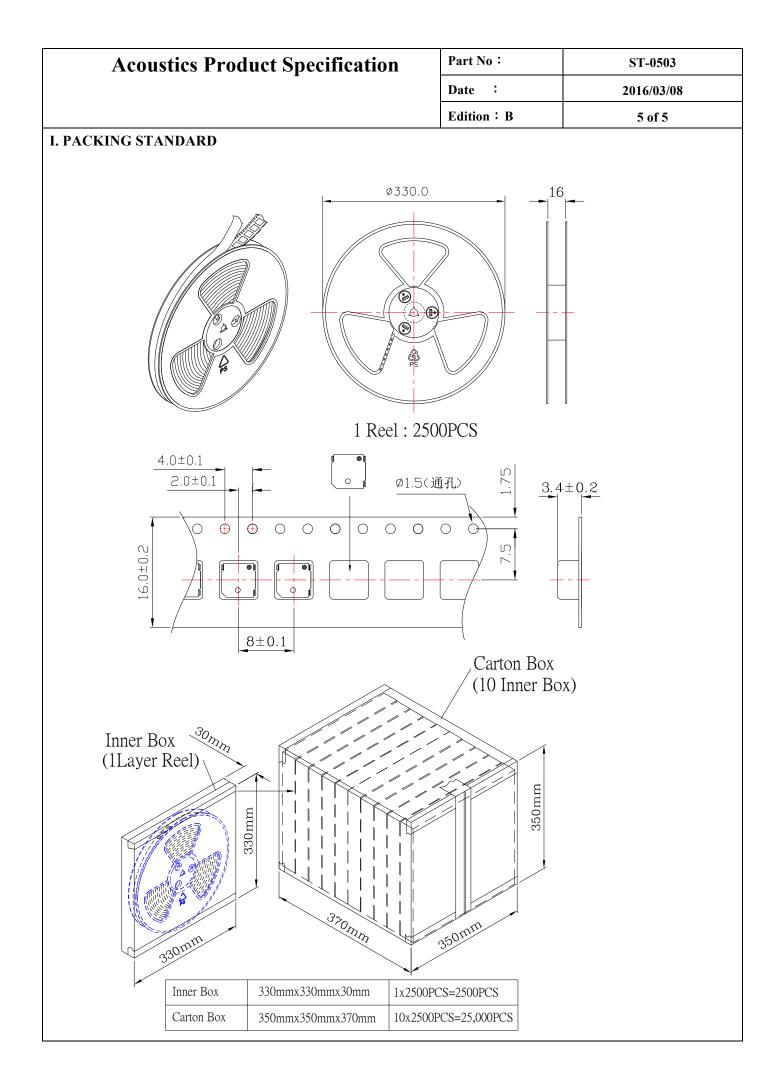
(2)Manual soldering

Manual soldering temperature 350 °C within 5 sec.

Acoustics Product Specification

Part No :	ST-0503
Date :	2016/03/08
Edition : B	4 of 5

IO.	ITEM	TEST CONDITION AND REQUIREMENT
	High Temperature Test (Storage)	After being placed in a chamber with 80ð2°C for 96 hours and then
1		being placed in normal condition for 2 hours.
		Allowable variation of SPL after test: ð10dB.
	Low Temperature	After being Placed in a chamber with -3082°C for 96 hours and then
2	Test (Storage)	being placed in normal condition for 2 hours.
		Allowable variation of SPL after test: ð10dB.
		After being Placed in a chamber with 90-95% R.H. at 4082°C for 96
3	Humidity Test	hours and then being placed in normal condition for 2 hours.
		Allowable variation of SPL after test: ð10dB.
		The part shall be subjected to 5 cycles. One cycle shall be consist of:
		+60°C
4	Temperature Cycle Test	$+25^{\circ}C$ $-20^{\circ}C$
5	Drop Test	at the height of 75cm.
		Allowable variation of SPL after test: ð10dB.
		After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz
6	Vibration Test	band of vibration frequency to each of 3 perpendicular directions for 2 hours .
		Allowable variation of SPL after test: ð10dB.
	Solderability	Lead terminals are immersed in rosin for 5 seconds and then
7	Test	immersed in solder bath of +300ð5°C for 3ð1 seconds .
		90% min. lead terminals shall be wet with solder(Except the edge of terminals).
0	Terminal Strength	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for
8	Pulling Test	10 seconds. No visible damage and cutting off.



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 GT-0901A
 PT

 1404
 SP-1813
 EM-4015-BC
 WST-1310S -1
 EM-6022
 EM-9745
 SP-1304-2
 ST-0402S
 SP-1813-2
 EM-6027P
 GT-0950RP3
 EM-6050
 GT

 111PS-1
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 GT-0903A
 WST-1212S
 ST-04BT
 ST-04BH-P
 EM-9745P
 ST-0402T
 PB-1408-1
 WST-0905S
 ST-03CH
 SP-1504

 WST-1612S
 EM-6050P
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 WST-1310S -3
 ST-04BL
 ST-025BH
 WST-1203BX
 ST-04CH
 WST-1203UX

 ST-03BL
 ST-025BL
 PB-2211
 ST-025BL
 PB-2211
 ST-042BL
 ST-025BL
 ST-04CH
 WST-1203UX