SPECIFICATION

Product Description : _____ Electromagnetic Buzzer

Product Model: WST-1307S



211 N. First Street Minneapolis, MN. 55401

www.soberton.com

Acoustics Product Specification	Acoustics	Product	Specification
--	-----------	---------	---------------

Part No:	WST-1307S
Edition: A	Page: 1

This specification applies Electromagnetic buzzer

SPECIFICATION

Test condition: TEMP= $\pm 25 \pm 2^{\circ}$ C Related humidity= $65 \pm 5\%$ Air pressure: $860 \sim 1060$ mbar

Item	Unit	Specification	Condition
Rated Voltage	VDC	5.0	
Operating Volt	VDC	3.0 ~ 7.0	
Mean Current	Ma	Max.40	At rated voltage direct current
Sound Output	dBA	90	At 10cm (A-weight free air) At rated voltage direct current
Rated Frequency	Hz	2400 ±200	
Operating Temp	$^{\circ}\!\mathbb{C}$	-30 ∼ +85	
Storage Temp	$^{\circ}\! \mathbb{C}$	-40 ~ +85	
Dimension	mm	12.8 × 12.8 × 7.1	See attached drawing.
Weight	gram	2.0	
Material		PPS(Gray)	
Terminal		SMD Type (Plating Sn)	See attached drawing
Environmental Protection Regulation		RoHS	

Part No:	WST-1307S
Edition . A	Dagar 2

ENVIRONMENT TEST

	Item	Test condition	Evaluation standard
Hi	igh temp. test	After being placed in a chamber at $+80^{\circ}$ C for 96 hours.	After the test the part will meet specifications
Lo	ow temp. test	After being placed in a chamber at -40 $^{\circ}$ C for 96 hours.	without any degradation in appearance and
Tł	hermal shock	The part will be subjected to 10 cycles. One cycle shall consist of +85°C -40°C 30 min 60 min	performance except SPL, after 4 hours at $+25^{\circ}$ C. The SPL will be in $\pm 10 \text{dBA}$ compared with initial one.
Тє	emp./Humidity Cycle	The part will be subjected to 10 cycles. One cycle shall be 24 hours and consist of; +85°C a,b:90~98%RH c:80~98%RH 24hours	

Part No:	WST-1307S
Edition : A	Paga: 3

RELIABILITY TEST

Item	Test condition	Evaluation standard
	1. Ordinary temperature	After the test the part will meet
	The part will be subjected to 96 hours of continuous	specifications without any
	operation at room temperature (+25 $\pm 10^{\circ}$ C) with 5V.	degradation in appearance and
	2. High temperature	performance except SPL, after
	The part will be subjected to 72 hours of continuous	4 hours at +25°C.
Operating life	operation at +60°C with 5V applied	The SPL would be in ±10dBA
test		compared with initial one.
	3. Low temperature	
	The part will be subjected to 72 hours of continuous	
	operation at -20°C with 5V applied	
	4. High and Low Voltage	
	Applying 4 voltage and 7 voltage, available time 24	
	hours each	

TEST CONDITION

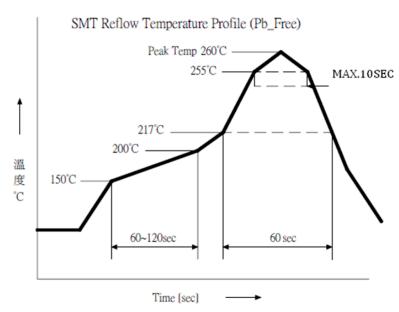
Standard Test Condition : a)Temperature: +5~+35°C b)Humidity:45~85% c)Pressure: 860~1060mbar

Part No:	WST-1307S
Edition: A	Page: 4

MECHANICAL CHARACTERISTICS

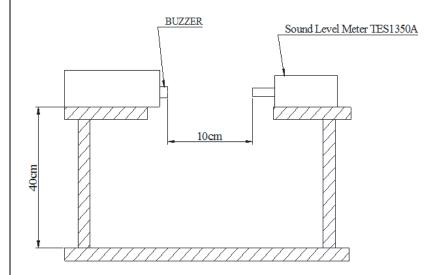
Item Test condition		Evaluation standard
	Lead terminal are immersed in rosin for 5 seconds and	90% min. lead terminals
Solder ability	then immersed in solder bath of $+250 \pm 5^{\circ}$ C for 3 ± 0.5	shall be wet with solder
	seconds	
		No interference in
Soldering Heat Lead terminal are immersed in soldering bath of +250		operation
Resistance	$\pm 5^{\circ}$ C for 2 ± 0.5 seconds.	
Terminal		No damage and cutting
Mechanical	Apply the terminal with 1KG strength for 1 minute	off
Strength		
	The part will be subjected to a vibration cycle of 10Hz	After the test the part
	to 55Hz to 10Hz in a period of 1 minute. Total peak	will meet specifications
Vibration	amplitude will be 1.52mm(9.3G). The vibration test will	without any damage in
	consist of 2 hours per axis in each three $axes(X,Y,Z)$.	appearance and
	Total 6 hours	performance except
		SPL.
	The part only will be dropped from a height of 75cm	The SPL would be
Drop test	onto a 40mm thick wooden board 3 times in 3	80dBA compared with
	axes(X,Y,Z). A total of 9 times	initial one.
		ō

RECOMMENDED WAVE SOLDERING TEMPERATURE CURVE :

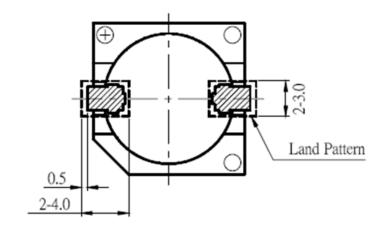


Part No:	WST-1307S
Edition: A	Page: 5

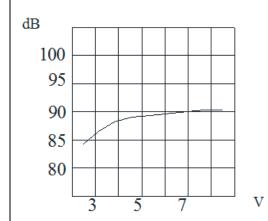
INSPECTION FIXTURE

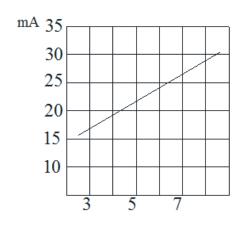


RECOMMENDED LAND PATTERN



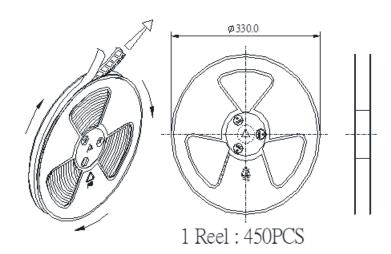
FREQUENCY RESPONSE

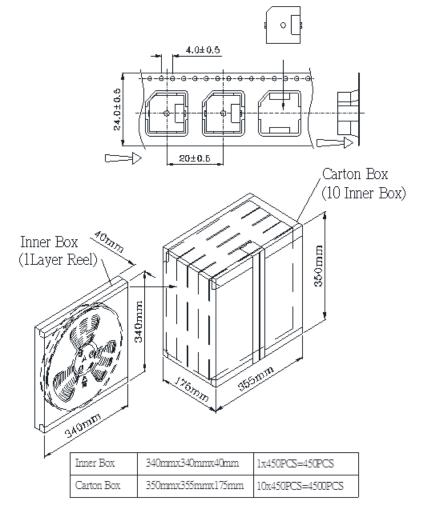




Part No:	WST-1307S
Edition: A	Page: 6

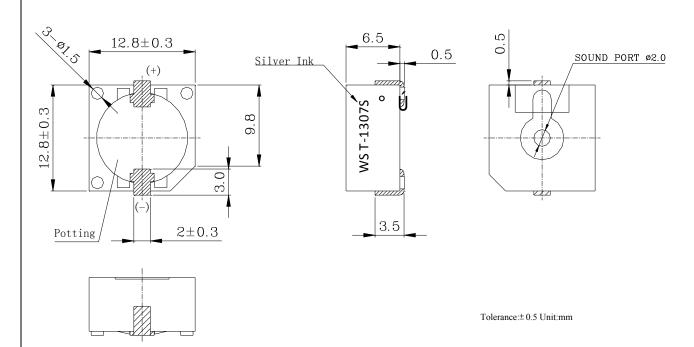
PACKING

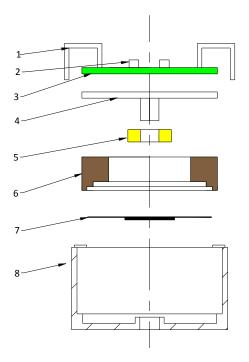




WST-1307S
Page: 7

DIMENSION





8	CASE	PPS	1
7	Diaphragm	Ferrum	1
6	Mag net ring	Poly+ ferrite	1
5	Coil	Copper	1
4	Core	Ferrum	1
3	PCB	Epoxy glass fiber cloth+ Copper	1
2	Transistor	Epoxy + Copper	2
1	PIN	Copper	
No.	Components	Material	Q'TY