

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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PRODUCT: Electromagnetic Buzzer

EDITION: A/2016



THIS SPECIFICATION APPLIES TO THE ELECTROMAGNETIC BUZZER

SPECIFICATION

Test condition: TEMP= $+25\pm2$ °C Related humidity= 65 ± 5 % Air pressure: $860 \sim 1060$ mbar

item	unit	specification	condition
rated voltage	Vo-p	3.0	
operating volt	Vo-p	2.0 ~ 4.0	
mean current	mA	Max.30	At rated voltage direct current
coil resistance	Ω		
sound output	dBA	82	At 10cm(A-weight free air), and at rated voltage
			direct current
rated frequency	Hz	2300 ± 400	
operating temp	°C	-20 ~ +60	
storage temp	°C	-30 ~ +70	
dimension	mm	φ12.0×H7.5	See attached drawing
weight	gram	2.0	
material		PPO (Black)	
terminal		Pin type	See attached drawing
environmental		RoHS	
protection regulation			

ENVIRONMENT TEST

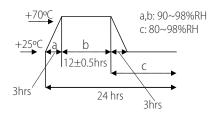
ite	em	test condition
hi	gh temp. test	After being placed in a chamber at +70℃ for 96 hours.
lo	w temp. test	After being placed in a chamber at -30°C for 96 hours.
th	ermal shock	The part will be subjected to 10 cycles. One cycle shall consist of: +70°C -30°C 30 min 60 min

evaluation standard

After the test the part will meet specifications without any degradation in appearance and performance except SPL, after 4 hours at ± 25 °C. The SPL will be in ± 10 dBA compared with initial one.

temp./humidity cycle

The part will be subjected to 10 cycles. One cycle shall be 24 hours and consist of:





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RELIABILITY TEST

item	test conditions	evaluation standard
operating life test	ORDINARY TEMPERATURE	After the test the part will meet specifications
	The part will be subjected to 96 hours of	without any degradation in appearance and
	continuous operation at room temperature.	performance except SPL, after 4 hours at +25°C.
	HIGH TEMPERATURE	The SPL would be in ±10dBA compared with
	The part will be subjected to 72 hours of	initial one.
	continuous operation at +60°C with 3.0V	
	applied.	
	LOW TEMPERATURE	-
	The part will be subjected to 72 hours of	
	continuous operation at -20°C with 3.0V applied.	
	HIGH AND LOW VOLTAGE	-
	Applying 2.0 voltage and 4.0 voltage, available	
	time 24 hours each.	
TECT COMPLETION		

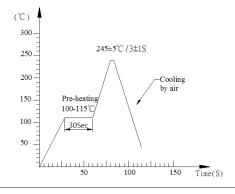
TEST CONDITION

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

MECHANICAL CHARACTERISTICS

item	test conditions	evaluation standard
solderability	Lead terminal are immersed in rosin for 5 seconds and then immersed in solder bath of +250±5℃ for 3±0.5 seconds.	90% min. lead terminals will be wet with solder No interference in operation.
soldering heat resistance	Lead terminal are immersed in soldering bath of +250±5℃ for 2±0.5 seconds.	No interference in operation
terminal mechanical strength	Apply the terminal with 1KG tension for 1 minute	No damage and cutting off.
vibration	The part will be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. Total peak amplitude will be 1.52mm(9.3G). The vibration test will consist of 2 hours per axis in each three axes(X,Y,Z). Total 6 hours.	After the test the part will meet specifications without any damage in appearance and performance except SPL. The SPL would be 80dBA compared with initial one.
drop test	The part only will be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes (X, Y, Z). Total of 9 times.	

RECOMMENDED WAVE SOLDERING TEMPERATURE CURVE



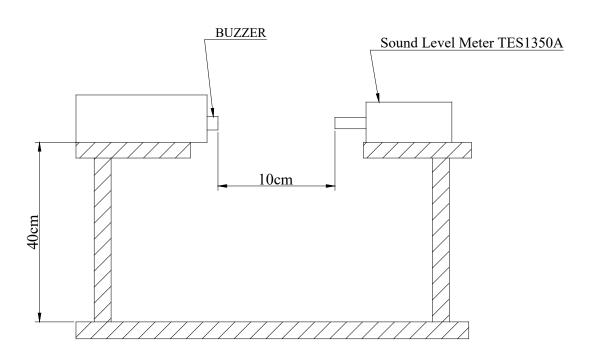


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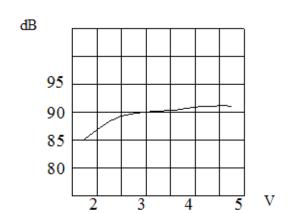
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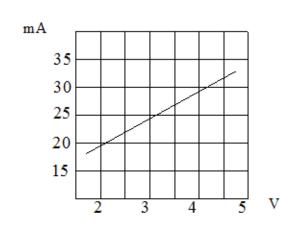
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INSPECTION FIXTURE



FREQUENCY RESPONSE







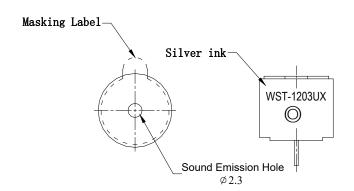
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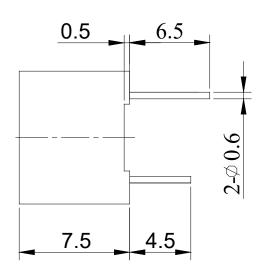
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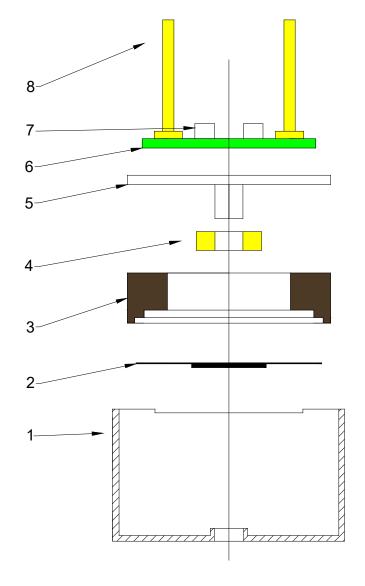
Soberton Inc.

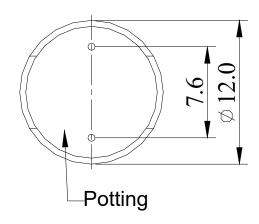
DIMENSIONS

Tolerance:±0.5 (unit: mm)









no	item	material	quantity
1	CASE	PPO	1
2	Diaphragm	Ferrum	1
3	Magnet ring	Poly+ferrite	1
4	Coil	Copper	1
5	Core	Ferrum	1
6	PCB	Epoxy glass fiber cloth + copper	1
7	Transistor	Epoxy + copper	2
8	PIN	Copper	2

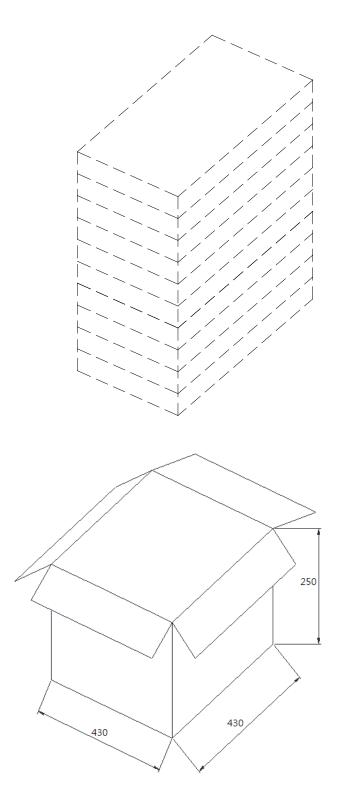


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PACKING



packing box	LxWxH (mm)	pieces
Tray	190x190x25	100
Inner cartons	210x210x220	1000
Outer cartons	430x430x250	4000