imall

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





THIS SPECIFICATION APPLIES TO THE ELECTROMAGNETIC BUZZER

SPECIFICATION

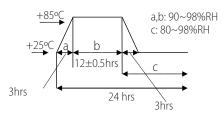
TEST CONDITION: TEMP= +25 ±2℃ RELATED HUMIDITY= 65 ±5% AIR PRESSURE: 860 ~ 1060MBAR

item	unit	specification	condition
rated voltage	Vo-p	3.6	Vo-p
operating volt	Vo-p	2.5 ~ 4.5	
mean current	mA	Max.100	At rated voltage 2500Hz, square wave, 1/2 duty
coil resistance	Ω	16 ±3	
sound output	dBA	80	At 10cm (A-weight free air), at rated voltage
			2500Hz, square wave, 1/2duty
rated frequency	Hz	2500	
operating temp	٥C	-30 ~ +85	
storage temp	٥C	-40 ~ +85	
dimension	mm	7.5×7.5×H2.5	See attached drawing
weight	gram	0.8	
material		LCP(Black)	
terminal		SMD Type (Plating Sn)	See attached drawing
environmental		RoHS	
protection regulation			

ENVIRONMENT TEST

item	test condition	evaluation standard
high temp. test	After being placed in a chamber at +85℃ for 96 hours.	After the test the part will meet specifications without any degradation in appearance and per-
low temp. test	After being placed in a chamber at -30°C for 96 hours.	formance except SPL. After 4 hours at +25°C. The SPL will be in ±10dBA compared with initial
thermal shock	The part will be subjected to 10 cycles. One cycle shall consist of: +85°C -30°C -30 min 60 min	one.
temp./humidity cycle	The part will be subjected to 10 cycles.	-

One cycle shall be 24 hours and consist of:





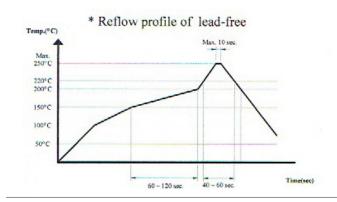
RELIABILITY TEST

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 +25 \pm 10°C.	performance except SPL, after 4 hours at +25°C.
	HIGH TEMPERATURE	Allowable variation of SPL after test: ±10dB
	The part will be subjected to 72 hours of	
	continuous operation at +85°C with 3.6V,	
	2500Hz applied.	
	LOW TEMPERATURE	-
	The part will be subjected to 72 hours of	
	continuous operation at -30°C with 3.6V, 2500Hz	
	applied.	
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	90% min. lead terminals will be wet with solder
	seconds and then immersed in solder bath of	
	+260 \pm 5°C for 3 \pm 0.5 seconds	
soldering heat resistance	The product followed the reflow temperature	No interference in operation.
	curve to test its reflow thermostability.	
terminal mechanical	Lead pads will be soldered on the pc board, and	No damage and cutting off.
strength	the force 9.8N(1.0Kg) will be applied behind the	
	part for 10 seconds.	
vibration	The part will be subjected to a vibration cycle of	After the test the part will meet specifications
	10Hz to 55Hz to 10Hz in a period of 1 minute.	without any damage in appearance and
	Total peak amplitude will be 1.52mm(9.3G). The	performance except SPL.
	vibration test will consist of 2 hours per axis in	The SPL would be ± 10 dBA compared with the
	each three axes(X,Y,Z). Total 6 hours.	initital 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). A total of 9 times.	

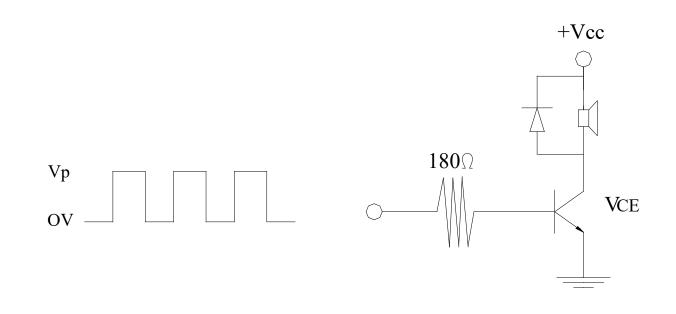
RECOMMENDED WAVE SOLDERING TEMPERATURE CURVE



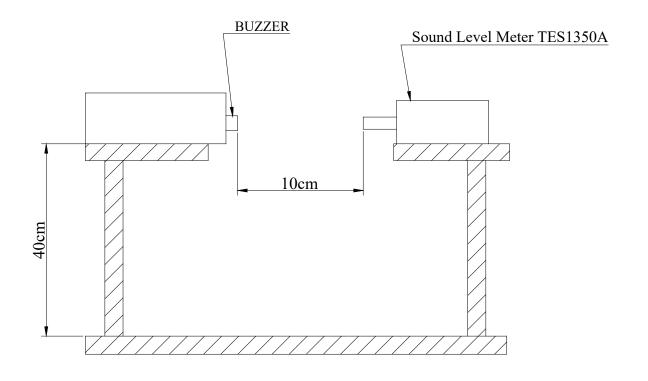
Recommendable reflow soldering condition as follows: Note 1: It is requested that reflow soldering should be executed after heat of product goes down to notrmal tempertaure. Note 2: Peak reflow temperature of 250°C Max 10 sec. with a maximum duration of 40-60 sec. between 220°C and 250°C



MEASUREMENT TEST CIRCUIT



INSPECTION FIXTURE



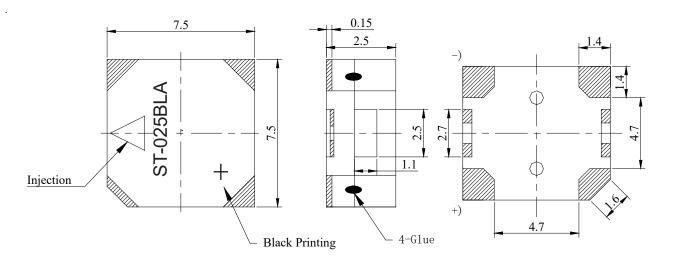


MODEL: ST-025BLA PRODUCT: Electromagnetic Buzzer EDITION: A/2017

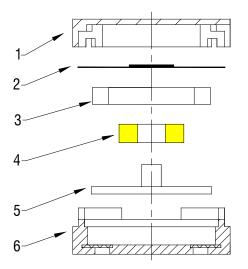


DIMENSIONS

Tolerance:±0.3 (unit: mm)



Tolerance:±0.5 Unit:mm

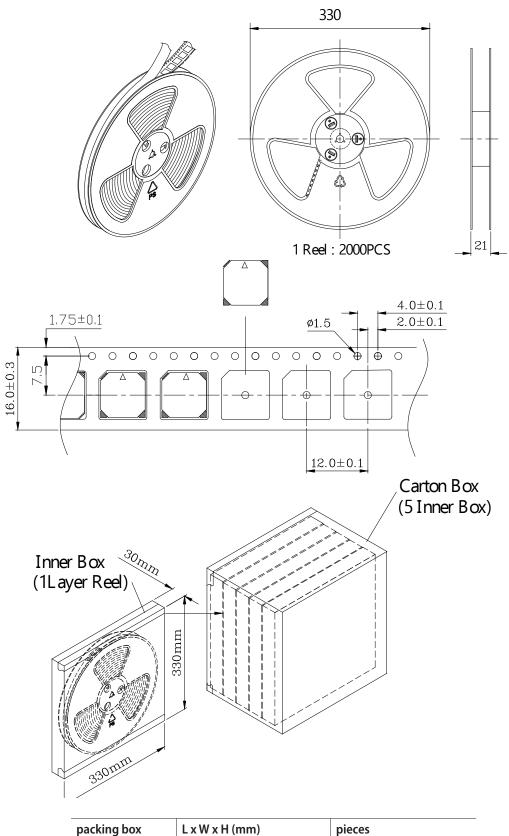


no	components	material	quantity
1	Case	LCP	1
2	Diaphragm	Ferrum	1
3	Magnet ring	NdFeB	1
4	Coil	Copper	1
5	Core	Ferrum	1
6	Case	LCP	1



MODEL: ST-025BLA PRODUCT: Electromagnetic Buzzer EDITION: A/2017

PACKING



packing box	L x W x H (mm)	pieces
Inner Box	340x340x40	1 x 1000 = 2000pcs
Carton box	350 x 175 x 355	10 x 2000 = 20,000pcs