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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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SPECIFICATION FOR APPROVAL

Customer:

Description: Magnetic Buzzer

SOBERTON Part No. : ST-0402T

Date: 2015-06-26

Customer Model No. :

Date of Approval	
Authorization	
Signature	

Soberton Inc.

211 North First Street Minneapolis, MN 55401 Tel: 612-849-6205 Fax: 952-933-3120 <u>Http://www.soberton.com</u> E-mail: <u>info@soberton.com</u>

Approved	Checked	Design
Jasmine	Frank	Jim
2015/6/26	2015/6/26	2015/6/26

MODEL NUMBER	CUSTOMER NUMBER	PRODUCT TYPE	REVERSION	DATE	PAGE
ST-0402T		Magnetic Buzzer	Α	2015-06-26	1/5

A. SCOPE

This specification applies magnetic buzzer, **ST-0402T**

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. 90	at Rated Voltage	
5	Sound Pressure Level	dB	MIN. 70	at 10cm at Rated Voltage	
6	Coil Resistance	Ω	17±3		
7	Operating Temperature		-20 ~ +70		
8	Storage Temperature		-30 ~ +80		
9	Dimension	mm	4.0 x 4.0 x H2.0	See appearance drawing	
10	Weight (MAX)	gram	0.1		
11	Housing Material		LCP(Black)		
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing	
13	Environmental Protection Regulation		RoHS		

C. APPEARANCE DRAWING







MODEL	MODEL NUMBER CUSTOMER NUMBER PRODUCT TYPE REVERSION D		DATE	PAGE			
ST-0	Г-0402Т			Magnetic Buzzer	Α	2015-06-26	4/5
H. R	ELIABIL	ITY TEST					<u>. </u>
NO.				TEST CONDIT	ION AND REQUI	REMENT	
			Aft	er being placed in a chamber wit	th 80±2°C for 96 hou	ars and then	
1 High		emperature	being placed in normal condition for 2 hours.				
	Test (Storage)		Allowable variation of SPL after test: ±10dB.				
	Low To	manaratura	Aft	er being Placed in a chamber wi	th -30±2°C for 96 ho	ours and then	
2	LOW IC	(Storage)	being placed in normal condition for 2 hours.				
	1051 ((Storage)	Allowable variation of SPL after test: ±10dB.				
			Aft	er being Placed in a chamber wit	th 90-95% R.H. at 4	0±2°C for 96	
3	Humi	dity Test	hou	irs and then being placed in norn	nal condition for 2 h	ours.	
			All	owable variation of SPL after tes	st: ±10dB.		
			The	e part shall be subjected to 5 cycl	les. One cycle shall	be consist of:	
					+70°C		
				125°C		+25°C	
	Temper	ature Cycle		+23°C			
4	remper	Test					
	Test		-				
		0.5hr 0.5 0.25 0.5 0.5 0.5 0.25					
		3hours					
			Allowable variation of SPL after test: ±10dB.				
			Drop on a hard wood board of 4cm thick, any directions ,6 times,				
5	Drop Test	at the height of 75cm.					
			Allowable variation of SPL after test: ±10dB.				
	Vibration Test	Aft	er being applied vibration of am	plitude of 1.5mm wi	th 10 to 55 Hz		
6		band of vibration frequency to each of 3 perpendicular directions for					
		2 hours .					
			Allowable variation of SPL after test: ±10dB.				
	G - 14	1.:1:4	Lea	id terminals are immersed in rost	in for 5 seconds and $C_{1} = 2 + 1$	then	
7	Sold	erability	immersed in solder bath of $\pm 300\pm 5$ °C for 3 ± 1 seconds.				
	Test		90% min. lead terminals shall be wet with solder (Except the edge of terminals)				
				force of 0 8N(1.0kg) is applied	to each terminal in	avial direction for	
8	Termin	al Strength	10 4	seconds			
0	Pulling Test		No visible damage and cutting off.				
TES		ON.					
Stand	lard Test Co	ondition :	a)	Temperature : +5 ~ +35℃ b)	Humidity : 45-85%	c) Pres	sure :
860-1060	mbar		F .				4000 -
Judgr	Judgment Test Condition: a) Temperature : +25 \pm 2 °C b) Humidity : 60-70% c) Pressure : 860-1060mbar						

