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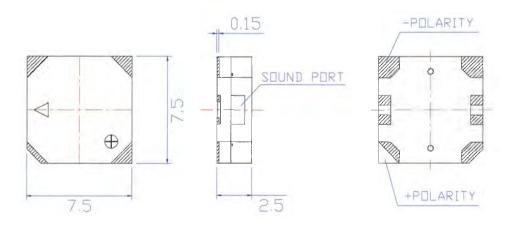
#### A. SCOPE

This specification applies passive electromagnetic buzzer, P/N: BST 7.52.5SM-03

#### **B. CHARACTERISTICS**

	B. STARASTERIOTIOS					
#	Item	Unit	Specification	Remark		
1	Oscillation Frequency	Hz	2730	Vp-p=1/2duty , square wave		
2	Operating Voltage	V	2.5 ~ 4.5	Vp-p		
3	Rated Voltage	V	3.6	Vp-p		
4	Current Consumption	mA	Max. 100	@ Rated Voltage		
5	Sound Pressure Level	dB	Min. 85	10cm, dB(A)		
6	Coil Resistance	Ω	15±3			
7	Operating Temperature	°C	-40 ~ +80			
8	Storage Temperature	°C	-40 ~ +85			
9	Dimension	mm	L7.5xW7.5xH2.5	Refer mechanical specification		
10	Weight (max)	gram	0.4			
11	Housing Material	1	LCP plastic resin	Black		
12	GP Compliance	1	RoHS			

# C. MECHANICAL DIMENSION



Unit: mm Tol: ±0.3

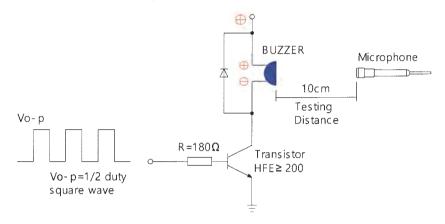


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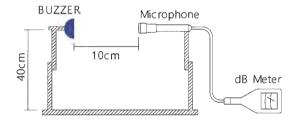
#### D. FUNCTION TEST

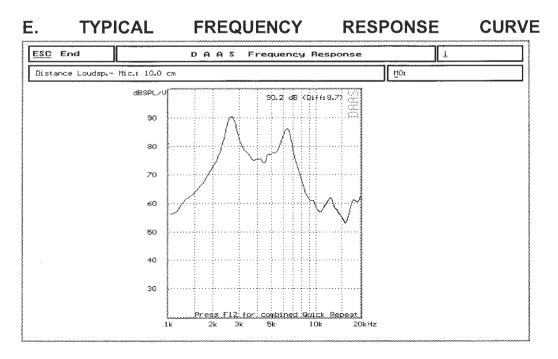
Environment Conditions: Temperature: 25±2°C Humidity: 45-60%

Acoustic Characteristics: The oscillation frequency, current consumption and SPL are tested by the testing instruments shown below (Recommend Driving Circuit)



in this test, buzzer is placed as below:





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# F. RELIABILITY TEST

#	ITEM	TEST CONDITION AND REQUIREMENT		
1	High Temperature Test (Storage)	Place the test samples in a chamber with +85±2°C for 96 hours and then place the samples in normal condition for 2 hours.  Allowable variation of SPL after test: ±10dB.		
2	Low Temperature Test (Storage)	Place the test samples in a chamber with -40±2°C for 96 hours and then place the samples in normal condition for 2 hours.  Allowable variation of SPL after test: ±10dB.		
3	Humidity Test	Place the test samples in a chamber with 90-95% R.H. at +40±2°C for 96 hours and then place the samples in normal condition for 2 hours.  Allowable variation of SPL after test: ±10dB.		
4	Temperature Cycle Test	The parts shall be subjected to 5 cycles. One cycle should include:  +80°C  -25°C  -25°C  -25°C  -25°C  -25°C  -25°C  -25°C  -3 hours  Allowable variation of SPL after test: ±10dB.		
5	Drop Test	Drop on a hard wood board of 4cm thick, any directions 6 times, at the height of 75cm.  Allowable variation of SPL after test: ±10dB.		
6	Vibration Test	Being applied the amplitude of 1.5mm (peak to peak) with the frequency of 10Hz to 55Hz (linear sweep) to each of 3 perpendicular directions for 1 hour.  Allowable variation of SPL after the test: ±10dB.		

Standard Mode:

a) Temperature: +5 ~ +35°C

b) Humidity: 45-85%

c) Pressure: 860-1060 mbar

Judgment Mode: a) Temperature: +25 ± 2°C

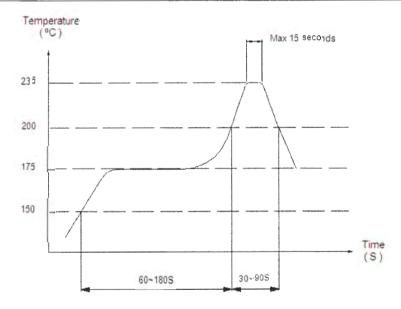
b) Humidity: 60-70%

c) Pressure: 860-1060 mbar

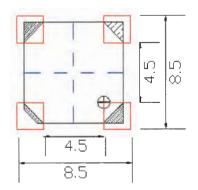


#### G. RECOMMENDED TEMP. PROFILE FOR REFLOW

Profile Feature	Pb-Free Solder Paste	
Pre-heat		
-Temperature	From 150°C to 200°C	
-Time	60~180 seconds	
Temperature Ramp-up	Max 3°C per second	
Maintain Stage		
-Temperature	217~240°C	
-Time	30~90 seconds	
Peak Temperature	235+10/-5°C	
Ramp Down Rate	Max 6°C per second	
From 25°C to Peak Temperature	Max 5 minutes	



# PCB PAD DIMENSION: ICC P/N BST 7.52.5SM-03







# H. PACKING

