PRODU	JCT SPECIFI	CATION	
Product Name	e: SMD E	Buzzer	
Part Number	r:SM13PT0	3AV5SH	
Document No	:		
Date:	2021.	2021.06.01	
DRAWING BY	CHECKED BY	APPROVED BY	
CHEN YUAN	YUE QIN	JIN LI	

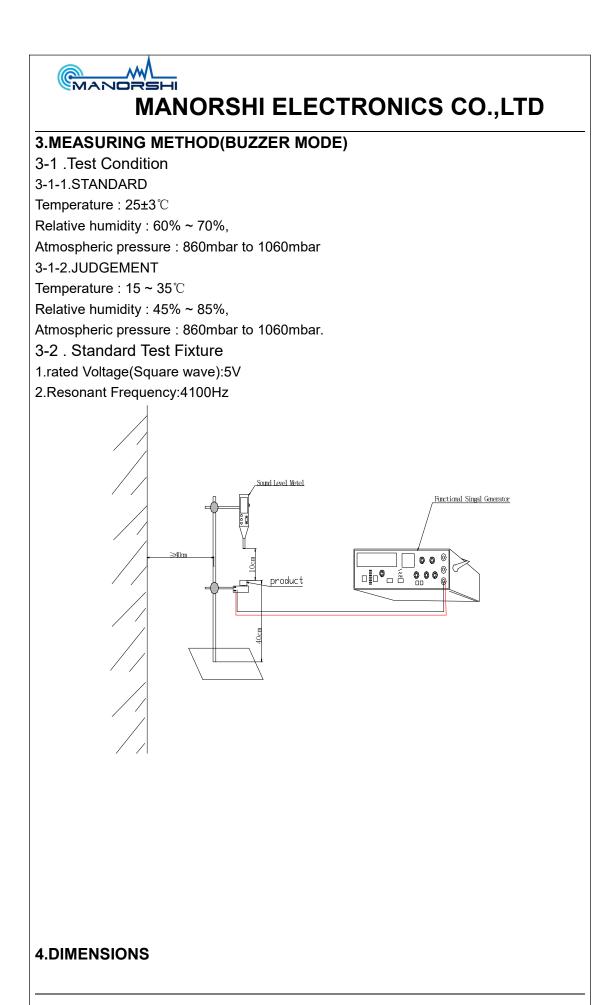


1.ELECTRICAL AND ACOUSTICAL SPECIFICATION

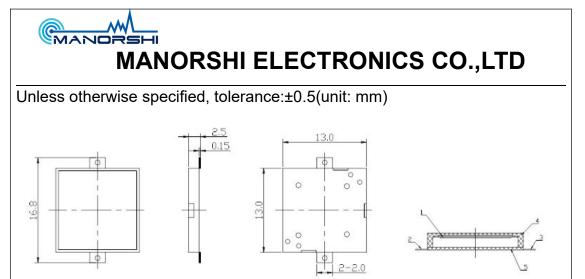
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No.	Item	Unit	Specifications
1-1	Rated Voltage (Square Wave)	Vp-p	5
1-2	Operating Voltage	Vp-р	1-25
1-3	*Rated Current (Max)	mA	3
1-4	* Min Sound Output at 4.1kHz/10cm	dB	80
1-5	* Resonant Frequency	Hz	4100
1-6	Capacitance at 120Hz	pF	16000±30%
1-7	Operating Temperature	°C	-30~+70
1-8	Storage Temperature	°C	-40~+85
1-9	Weight	g	0.5
1-10	Housing Material		LCP
1-11	Tone Nature		Single
1-12	Connection		SMD

* Value Applying at Rated Voltage(resonant frequency, 1/2 duty, square wave)

2.ENVIRONMENTAL TEST							
2-1	Storage in High temp.	Storage in +85 $^{\circ}C\pm 2^{\circ}C$ test box for 96 hours, then expose to the room temperature for 2 hours without applying power.					
2-2	Storage in Low temp.	Storage in -40 $^{\circ}$ C ±2 $^{\circ}$ C test box for 96 hours, then expose to the room temperature for 2 hours without applying power.					
2-3	Storage in Humidity	Storage in +40 $^{\circ}C \pm 2^{\circ}C$ 90-95%RH test box for 96 hours, then expose to the room temperature for 2 hours without applying power.					
2-4	Thermal cycle test.	+85 °C +20 °C +20 °C +20 °C +20 °C +20 °C +20 °C +20 °C +20 °C -40 °C Make this test for 5 cycles without applying power,then expose to the room temperature for 2 hours.					
2-5	Vibration test	9.3g 0.3g 10 Make this test for the directions of X,Y, Z for 2 hours each (total 6 hours). Amplitude:1.5mm Time :1min/axis					
2-6	Drop test Free drop a unit from the height 70cm to the surface of 10m thick board ,three directions(X,Y,Z).						
2-7	Solderability test	Soldering temp.:260±5℃ Heat applying time: 3±0.5sec.					
PASS CRITERION : After these tests, the change of S.P.L shall be within ±5 dB .							



Building 5, No. 8 Chuangye Road, Shezhu Town, Liyang City, Changzhou, Jiangsu, China Tel:86-519-89185720 E-mail:sales@manorshi.com Http://www.manorshi.com



- 1) All parts must be meet to ROHS.
- 2) Reflow solder allowed.
- 3) Wash not allowed.

5	Cover	1	LCP	
4	Housing	1	LCP	
3	Pin	1	Brass (Sn plated)	
2	Pin	1	Brass (Sn plated)	
1	Piezo element	1	Nickel	
Part No.	Part Name	Q'TY	Material Rema	ark

5.FREQUENCY RESPONSE CURVE

