



Product Specification

Ningbo East Electronics Limited

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Product Name:	SMD Piezo Buzzer
Part Number:	SFM 1740S
Ver si on:	1.03
Dat e:	2019- 8- 20
Note:	

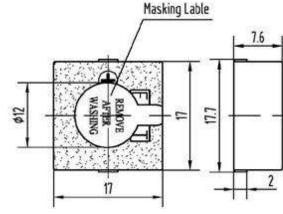
East is an ISO 9001, IATF16949 and ISO 14001Certified Company

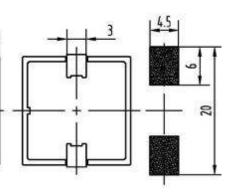
Revision History

Rev.	Description	Author/Date	Checked By	Approver
1.03	Quality management system revised	汤礼东 2019-8-20	吕文斌	王建成
1.02	change the paper reel to plastic reel	刘进 2015-6-1	汤礼东	王建成
1.01	Quality Certificate Symbol revised	刘宁 2015-2-4	汤礼东	王建成

1. Part Number SFM-1740S

2. Dimension Drawing (Unit: mm)





RECOMMENDED SMD FOOT PATTERN

SFM-TERMINAL VERSION

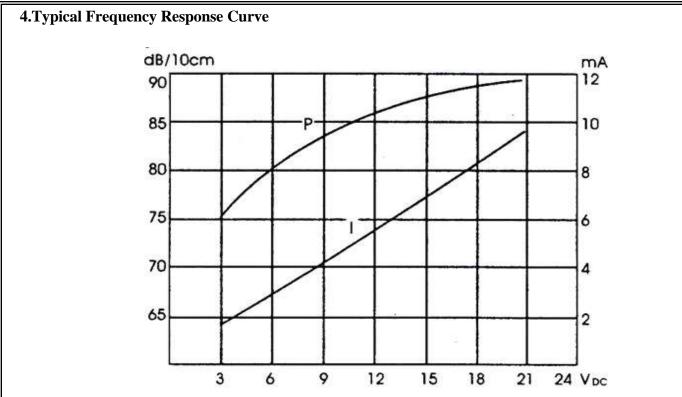
Solder paste thickness is not below 0.2mm The seal will be removed after reflow soldering

3.Specification

No.	Item	Specification
3-1	Min. Sound Pressure Level	85dB/12V _{DC} /10cm
3-2	Rate Voltage	12V _{DC}
3-3	Operating Voltage	6~16V _{DC}
3-4	Max. Consumption	8mA/12V _{DC}
3-5	Oscillating Frequency	4.0± 0.5kHz
3-6	Tone Nature	Continuous
3-7	Operating Temperature	-20~+70°C
3-8	Storage Temperature	-20~+70°C
3-9	Case Material /Color	PPS/Black
3-10	Weight	2.0g
3-11	Pin Strength	More Then 10N

NOTES:

Test should be made under the conditions of room temperature $(20\pm10^{\circ}C)$, normal humidity $(60\pm20\%)$ and normal atmospheric pressure. In this case, however, that the judgment is questionable, the test conditions are to be changed to room temperature $20\pm2^{\circ}C$, relative humidity $60\sim70\%$ and normal atmospheric pressure



Note: Distance 10 cm

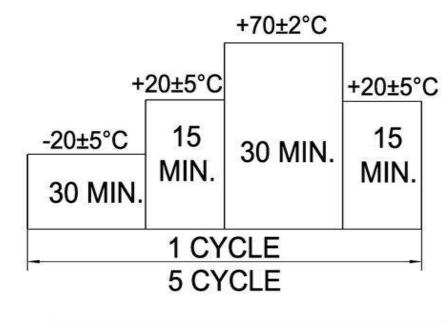
5. Reliability Test

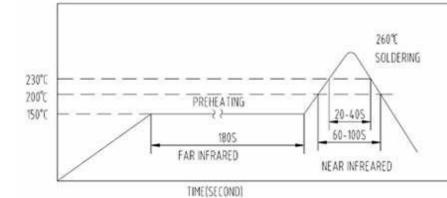
No.	Item	Method of Test	Tolerance after Testing	
5-1	Operating Temperature	-20~+70°C	Sound pressure level	
5-2	Storage in high temperature	Storage in +70°C test box 96 hours then exposed to the room temperature for 2 hours	initial value ±10dB Max. consumption value ±20% Oscillating Frequency Value±20%	
5-3	Storage in low temperature	Storage in -20°C test box 96 hours then exposed to the room temperature for 2 hours		
5-4	Life test in the room temperature	Operate the product continuously 5 seconds on 5 seconds off 300 hours at rated voltage		
5-5	Temperature / humidity cycle test	Storage in +40°C, 93±3%RH test box 96 hours then exposed to the room temperature for 2 hours	-	
5-6	Temperature (high and low) cycle test	Conduct the test for 5 cycles without applying power then expose to the room temperature for 2 hours.(See Figure 5-6)		
5-7	Vibration test	Conduct the test for the directions of X Y and Z for 0.5 hour each (total 1.5 hours). To-and Fri sweep time(from 10 to 55Hz and then 55 to 10) under single amplitude of 0.75mm is 3 minute, then expose to the room temperature for 2 hours		
5-8 Drop test		Drop a product naturally from the height of 700mm onto the surface of 100mm thick wooden board. Two directions: upper and side of the product are to be applied for this drop test once respectively		

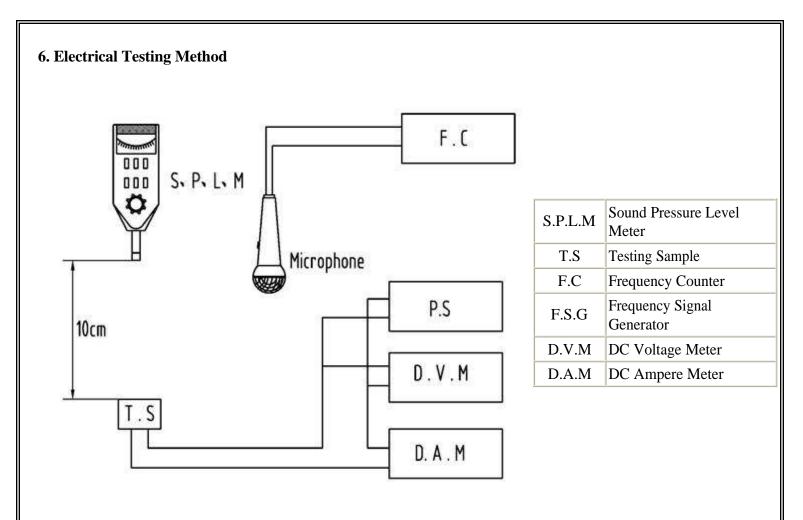
5-9	Reflow soldering heat resistance	 a) Pre-heating conditions shall be +140°C to 160°C for 160 to 200 seconds. (See Figure5-9) b) Heating conditions shall be within 60 seconds at +200°C min., but peak temperature shall be lower than +260°C. (See Figure 5-9) 	
5-10	Test of soldering	Dip the connecting pins in soldering at 230±5°C for 3±0.5 seconds	Solder shall be attached around over 95% of the dipped portion
NOTE : The pins are allowed to deform after drop test.			



Figure 5-9

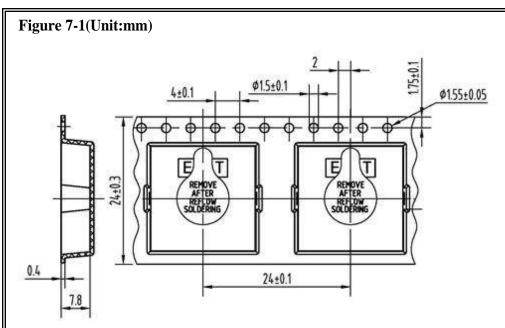






7. Packing Information

No.	Item	Description
7-1	Tape type information	 a) The design for such tape packing was executed under standard IEC - 286-3 b) The material of the tape is polystyrene in black color. Detailed dimensions are as below: (See Figure7-1)
7-2	Dimensions of the rolling plate	a) The material of the rolling plate is plastic.b) The dimensions of the rolling plate are as below(See Figure7-2)
7-3	Packing dimensions and quantity	 a) The rolling plate is put into a 340X335X35mm inner packing box and is packed with 350pcs of transducer per plate. b) The dimension of the outer carton is 460X 350X 350mm containing 10 inner boxes with a total quantity of 3500 pcs of transducer. c) The total gross weight per carton is 12.7Kgs, while net weight is 7.0Kgs.



3-R1

Figure 7-2(Unit:mm)

