



Product Specification

Product Name:	SMD External-Driven Piezo Transducer
Part Number:	SFM-1740
Version:	1.04
Date:	2019-10-8
Note:	

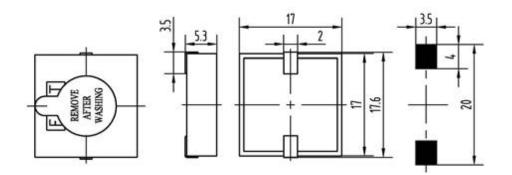
East is an ISO 9001, IATF16949 and ISO 14001Certified Company

Revision History

Rev.	Description	Author/Date	Checked By	Approver
1.04	Quality management system revised	汤礼东 2019-10-8	吕文斌	王建成
1.03	change the paper reel to plastic reel	刘进 2015-5-30	汤礼东	王建成
1.02	Quality Certificate Symbol revised	刘宁 2015-2-4	汤礼东	王建成

1. Part Number SFM-1740

2. Dimension Drawing (Unit: mm)



SFM-TERMINAL VERSION

RECOMMENDED SMD FOOT PATTERN

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

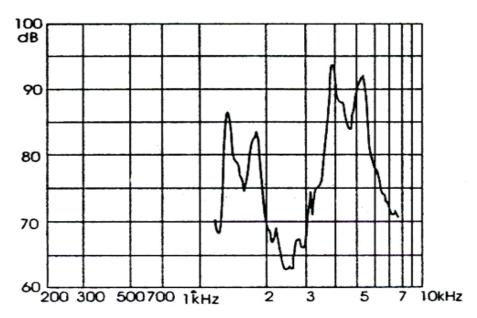
3.Specification

No.	Item	Specification
3-1	Min. Sound Pressure Level	80dB/4.0kHz/5Vp-p square wave /10cm
3-2	Allowed Input Voltage	20Vр-р
3-3	Capacitance	14±30%nF(At 1000Hz)
3-4	Max. Consumption	2.5mA/4.0kHz/5Vp-p square wave
3-5	Resonant Frequency	4.0± 0.3kHz
3-6	Operating Temperature	-20~+85°C
3-7	Case Material /Color	PPS/Black
3-8	Pin Material /Plated	Cu/Au
3-9	Weight	2.2g
3-10	Pin Strength	More than 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

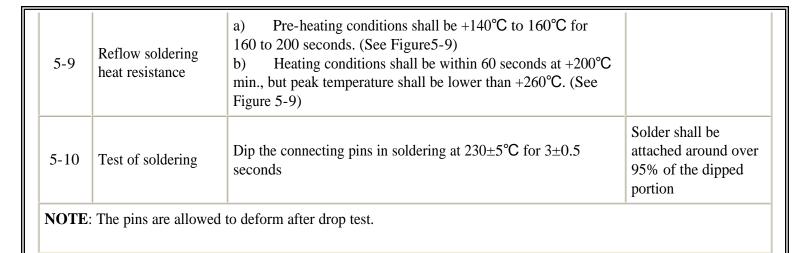
4. Typical Frequency Response Curve



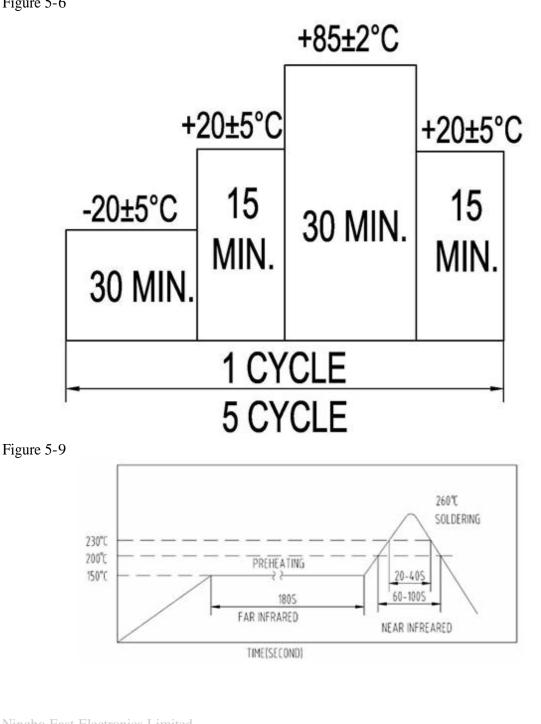
Note: Input Voltage 5Vp-p square wave Distance 10 cm

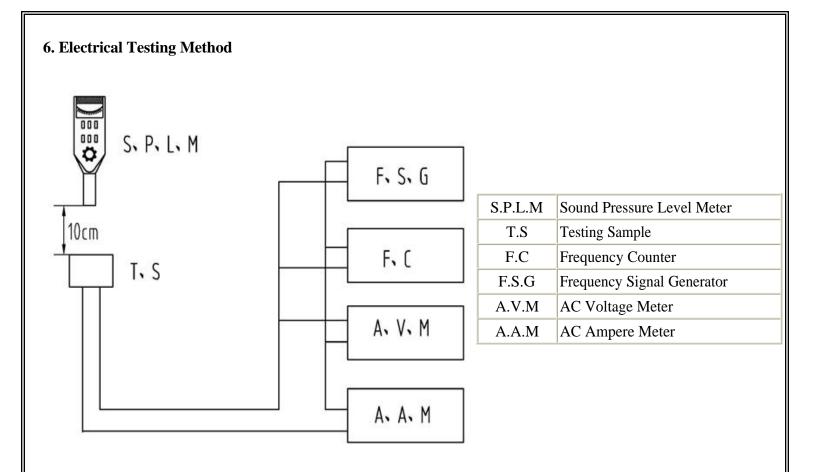
5. Reliability Test

No.	Item	Method of Test	Tolerance after Testing	
5-1	Operating Temperature	-20~+85°C	Max. consumption value ±20% Capacitance value ± 20% osed 5-6) our 55Hz he upper	
5-2	Storage in high temperature	Storage in +85°C test box 96 hours then exposed to the room temperature for 2 hours		
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 $+40^{\circ}$ C, $93\pm3\%$ 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		









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 340X340X45mm inner packing box and is packed with 450pcs of transducer per plate. b) The dimension of the outer carton is 460X 350X 350mm containing 10 inner boxes with a total quantity of 4500 pcs of transducer. c) The total gross weight per carton is 18.7Kgs, while net weight is 9.9Kgs.

