



Product Specification

Ningbo East Electronics Limited

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Product Name:	SMD External-Driven Piezo Transducer
Part Number:	SFM-11917
Version:	1.04
Date:	2019-10-8
Note:	

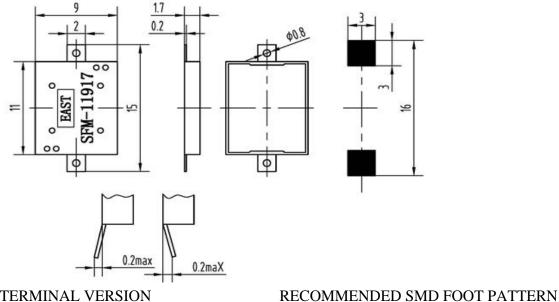
East is an ISO 9001, IATF16949 and ISO 14001Certified Company

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-11917

2. Dimension Drawing (Unit: mm)



SFM-TERMINAL VERSION

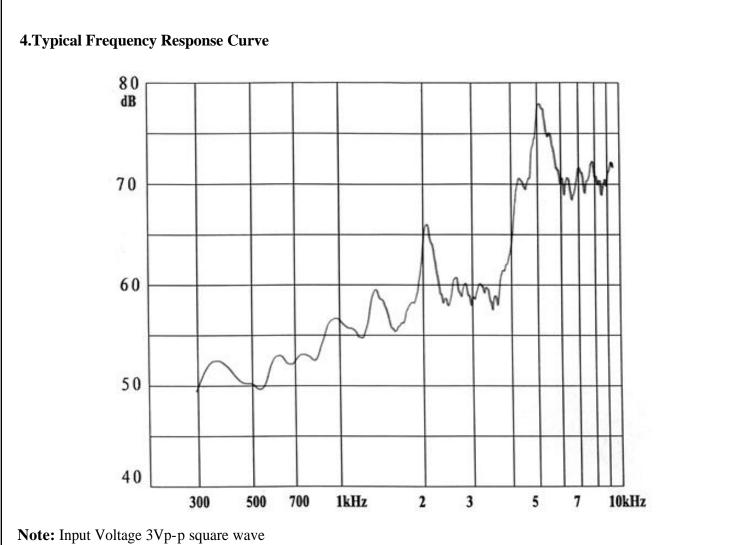
Solder paste thickness is not below 0.2mm

3.Specification

No.	Item	Specification
3-1	Min. Sound Pressure Level	60dB/4.1kHz/3Vp-p square wave /10cm
3-2	Rated Voltage	3Vp-p
3-3	Allowed Input Voltage	25Vp-p
3-4	Capacitance	13±30%nF(At 1000Hz)
3-5	Max. Consumption	3.5mA/4.1kHz/3Vp-p square wave
3-6	Resonant Frequency	4.1±0.3kHz
3-7	Operating Temperature	-20~+85°C
3-8	Storage Temperature	-20~+85°C
3-9	Case Material /Color	LCP/Black
3-10	Weight	0.3g
3-11	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 ± 2 °C, relative humidity 60~70% and normal atmospheric pressure



Distance 10 cm

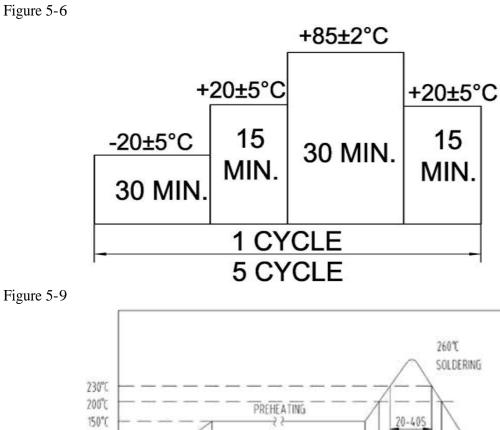
5. Reliability Test

No.	Item	Method of Test	Tolerance after Testing	
5-1	Operating Temperature	-20~+85°C	Sound pressure level initial value ±10dB Max. consumption	
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	value ±20% Capacitance value ±20%	
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			

Solder shall be attached around over 95% of the dipped portion
atta 959

≤60S

NEAR INFREARED



1805 FAR INFRARED

TIME(SECOND)

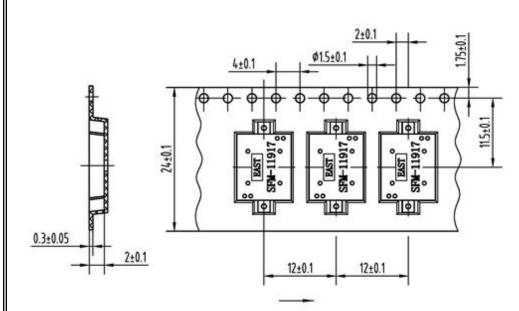
6. Electrical Testing Method

S. P. L. M	F, S, G		
		S.P.L.M	Sound Pressure Level Meter
10cm		T.S	Testing Sample
	F C	F.C	Frequency Counter
L T.S		F.S.G	Frequency Signal Generator
		A.V.M	AC Voltage Meter
	A, V, M	A.A.M	AC Ampere Meter
	A. A. M		

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 packed with2,500 pcs of the transducer per plate. b) The dimension of the outer carton is 380X 350X 350mm containing 10 inner boxes with a total quantity of 25000 pcs of transducer. c) The total gross weight per carton is 11Kgs, while net weight is 7.5Kgs.

Figure 7-1



1

Ø21

1 5:1

3-R1

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