

# **SPECIFICATION** FOR APPRONAL

Customer

**Product Name SMD Buzzer** 

.

Model Name VS9045F27V3 2

Drawing No. VS20230629011

## Signature of Voise

Approved by	Checkde by	Issued by	Date



Address:No 96 Mogao Dongqian Lake Industial Area ningbo, China, Tel:0086-0574-87773030;Fax:0086-0574-87471600 P.C.315121 http://www.nbvoise.com Email:sales@nbvoise.com



C C	Specification	n for 9	SMD Buzzer	Page	2/8
Ċ.	specification			Revision No.	1.0
Mod	el No.: VS9045	F27V3			VS2023062
<ol> <li>Revisi</li> <li>Scope</li> <li>Gener</li> <li>Gener</li> <li>Electri</li> <li>Reliab</li> <li>Measu</li> <li>Record</li> </ol>	al Characteristi cal and Acousti ility Test ırement Methoo	cs c Chara I & Freo erature	quency Response curve profile for reflow oven		
<b>1. Rev</b> Rev.No.		Page	Description of R	ription of Revision	
1.0	2023/6/29		Preliminar	ТУ	



Specification for SMD Buzzer	Page	3/8
· · ·	Revision No.	1.0
Model No.: VS9045F27V3	Drawing No.	VS20230629011

#### 2. Scope

This product specification is applied to the Magnetic Buzzer in alarm systems.Please contact us when using this product for any other applications than described in the above.

#### 3. General Characteristics

9 mm

- 3.2 Height 4.5 mm :
- 3.3 Weight : 1 g
- 3.4 Operating Temperature : -40~+80°C without loss of function
- 3.5 Store Temperature : -40~+85°C without loss of function
- 3.6 Environmental protection rule :ROHS

### 4. Electrical and Acoustic Characteristics.

Test condition :15 ~ 35 °C Temp., 45% ~ 85% RH,86~106 kPa Refer to IEC60268-1

No	Items	Specification
1	Oscillation Frequency	2700 Hz
2	Operating Voltage	2~5V
3	Rated Voltage	3 V
4	Min Sound Preesure Level	85 at 10cm Rated Voltage/2700Hz,Square wave 1/2duty
5	Max Current Consumption	80mA at Rated Voltage/2700Hz,Square wave 1/2duty
6	Coil Resistance	16 ± 5Ω
7	Housing Material	LCP
8	Color	Black
9	Pad plating	Sn



Specification for SMD Buzzer			Page	4/8
	•		Revision No.	1.0
	Model No.: VS	9045F27V3	Drawing No.	VS202306290
5	· ·	<b>Test</b> ), the buzzer S.P.L . difference shall be within : ist any change to be harmful to normal operati		
No	Items	Specification		
1	High Temp.Test	After being placed in a chamber at +80±2 $^\circ C$ for 96h and then being placed in natural condition for 4h, and then check.		
2	Low Temp.Test	First being placed in a chamber at -40±2 °C for 96h and then being placed in natural condtion for 4h, and then check.		
3	Temp./Humidity Test	The buzzer shall be subjected to 5 cycles One cycle shall be 24 huors and consist of and then being placed in natural +25 for 4h ,and then check.	c a b b	a, b:90-98%RH C:80-98%RH 3h c
4	Thermal Shock Test	After being worked in a chamber at $+80\pm2$ °C for 0.5 hour, then sounder shall be placed in a chamber at $-40\pm2$ °C for 0.5 hour(1 cycle is the below diagram).The test duration is for 10 cycle.after being placed in natural condition for 4 hour.and then check.		
5	Vibration Test	Being applied vibration of amplitude of 1.5mm with 10-55Hz band of vibration frequency,X.Y.Z.3 direction.2 hours each, total 6 hours.		
6	Drop Test	Free drop fram 0.75 meter height to a board 40mm thick hard wood board 3 times in axes X.Y.Z. and be nothing mechanical damage. tatol 9 times.		
7	Solderability	Lead terminals are immersed in solder bath of +235±5℃ for 3±1 seconds.95% surface of lead pads must be covered with fresh solder.		
8	Soldering Heat Resistance	The product is followed the reflow temperation thermostability. No interference in operation.	on curve to test its	s reflow

Lead pads shall be soldered on the pc board, and the force 9.8N(1.0kg) Terminal 9 shall be applied behaind the part for 10 seconds.No damage and cutting Strength Pulling off. The part shall be subjected to 72 hours at +85°C with 3V Vo-p, 2700Hz 10 Continuous life test applied.after being placed in natural condition for 4 hour.and then check. The SPL shall be within ±10dB.

A duty cycle of 1 minute on, 1 minute off, a minimum of 5000 times at room temp.(25±10 $^\circ C$ ) with 3V Vo-p, 2700Hz applied. after being placed in 11 Intermittent life test natural condition for 4 hour.and then check. The SPL shall be within ± 10dB.















