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SPECIFICATION

FOR APPRONAL

Customer :

Product Name : Microphone

Model Name : VS9767S32

Drawing No. : VS20200908011

Signature of Voise

Approved by	Checkde by	Issued by	Date

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1. Revision

Rev.No.	Date	Page	Description of Revision
1.0	2020/9/8		Preliminary

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2. Scope

This specification applies electret condenser microphone.

3. General Characteristics

3.1 Out-Diameter : 9.7 mm

3.2 Height : 6.5 mm

3.3 Weight : 0.8 g

3.4 Operating Temperature : -30~+70℃ without loss of function

3.5 Store Temperature : -40~+80℃ without loss of function

4. Electrical and Acoustic Characteristics.

Test condition :5 ~ 35 ℃ Temp., 35% ~85% RH,86~106 kPa Refer to IEC

No	Items	Specification	Condition
1	Directivity	Omni-directional	
2	Sensitivity (S)	-32dB±3dB	f=1KHZ, 0dB=1V/pa RL=2.2KΩ
3	Standard Voltage(Vs)	4.5 V.D.C	
4	Output impedance (Zout)	2.2 KΩ	f=1KHz,1ubar
5	Operating Voltage	1-10 V.D.C	
6	Decreasing Voltage (△S-Vs)	-3dB	Vc=4.5V to 3.0V
7	Frequency	50-16,000Hz	
8	Max. Current Consumption (IDss)	0.5 mA	Vc=4.5V , RL=2.2KΩ
9	Max input Sound Pressure Leve	110 dB	
10	Min Signal to noise ration (S/N)	58 dBA	f=1 KHZ , S.P.L=1Pa
11	Material	AL	
12	Environmental Regulations	No RoHS	

We use “Pascal (Pa)”indication of sensitivity as per the recommendation of I.E.C.(International Electro technical Commission).The Sensitivity of “Pa” will increase 20dB comparing with “ubar” indication.
Example: -60dB (0dB=1V/ubar) =-40dB (1V/Pa)

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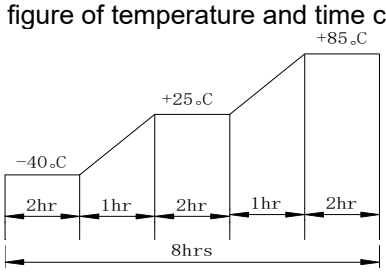
5. Reliability Test

After any following tests, the sensitivity of the microphone to be within ±3dB of initial sensitivity after 3 hours of conditioning at 20℃

No	Items	Specification
1	High Temp.Test	Keep 96 hours at +70±3 ℃,and leave 3 houres in normal temperature and then check.
2	Low Temp.Test	Keep 96 hours at -40±3 ℃,and leave 3 houres in normal temperature and then check.
3	Humidity Test	Keep 96 hours at -45±3 ℃,relative humidity 90 to 95% and leave 3 houres in normal temperature and then check.
4	Temperature Cycles Test	According to the figure of temperature and time cycle， each 10 times 
5	Vibration Test	1 minute frequency from 10Hz to 55Hz, amplitude 1.52mm, the vibration in three directions 2 hours
6	Drop Test	Three faces of package from 1 meters high free fall to the ground, each 10 times
7	Temperature Impact Test	-20℃±3℃ for 30 minutes, and then 70℃±3℃ for 30 minutes，each 10 times
8	Solderability	The soldering copper of a type of 90W shall be applied， The temperature of the working surface of the soldering copper shall be 320±10℃,Welding time is within 2 to 3 seconds.
9	Soldering Condition	ECM shall be soldered fixed on the metal block(heat sink)which has the higher radiation effects said heat sink
		The pinhole after soldering shall be avoided
		ECM may easily destroyed by the static electricity and the countermeasure for eliminating the static electricity (the ground for soldering copper, for worktable and for human body) shall be executed

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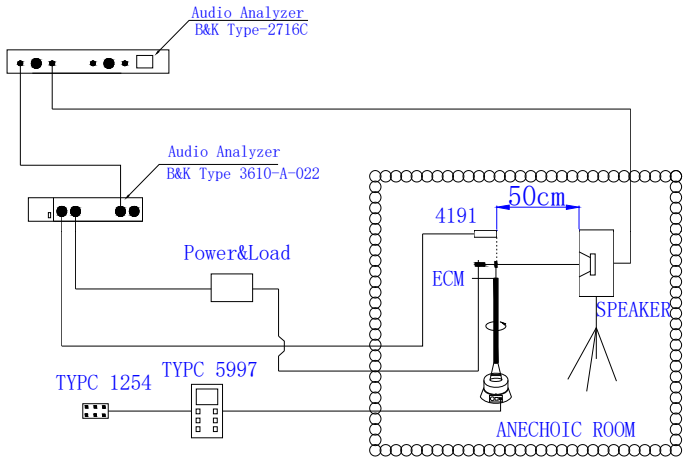
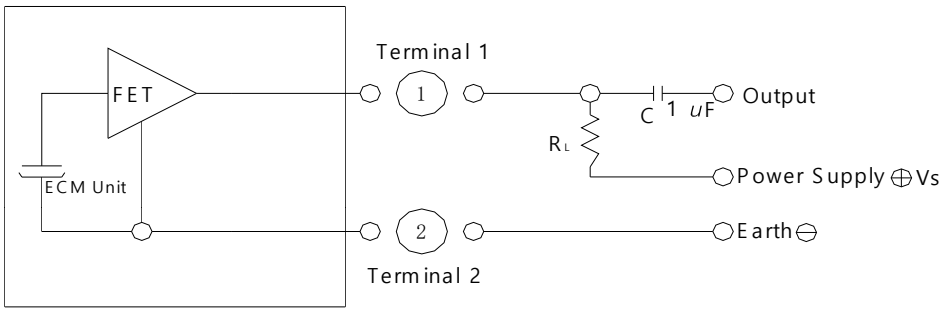
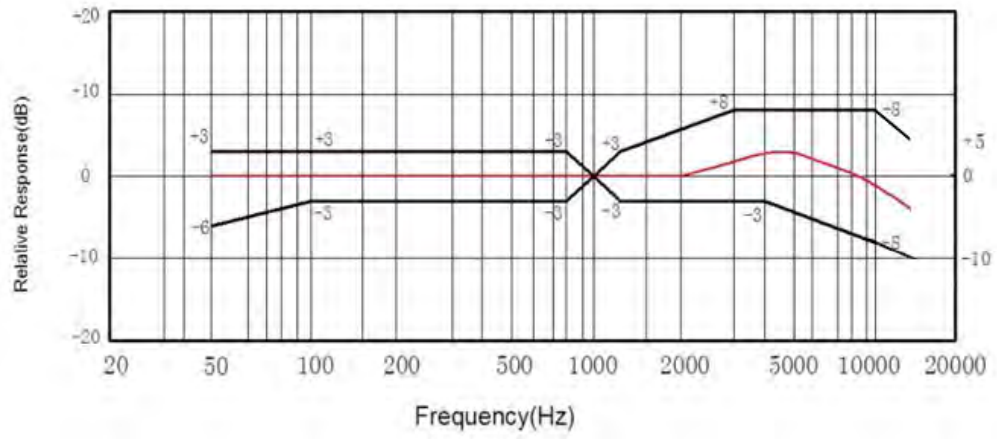
6. Measurement Method & Frequency Response curve





RL:2.2KΩ (external resestance)



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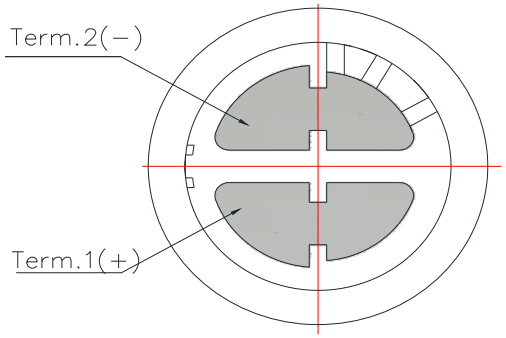
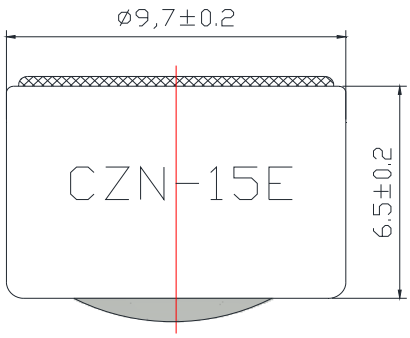
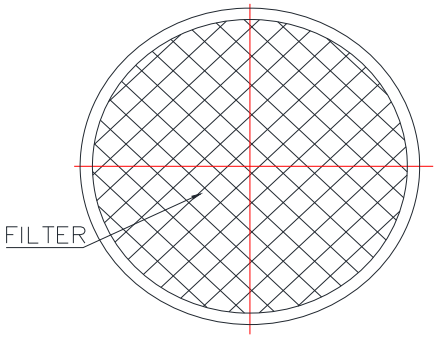
7. Dimensions

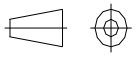




侧面标识：
CZN-15E



FIRST ANGLE PROJECTION



UNIT : mm
Tolerance : ±0.2

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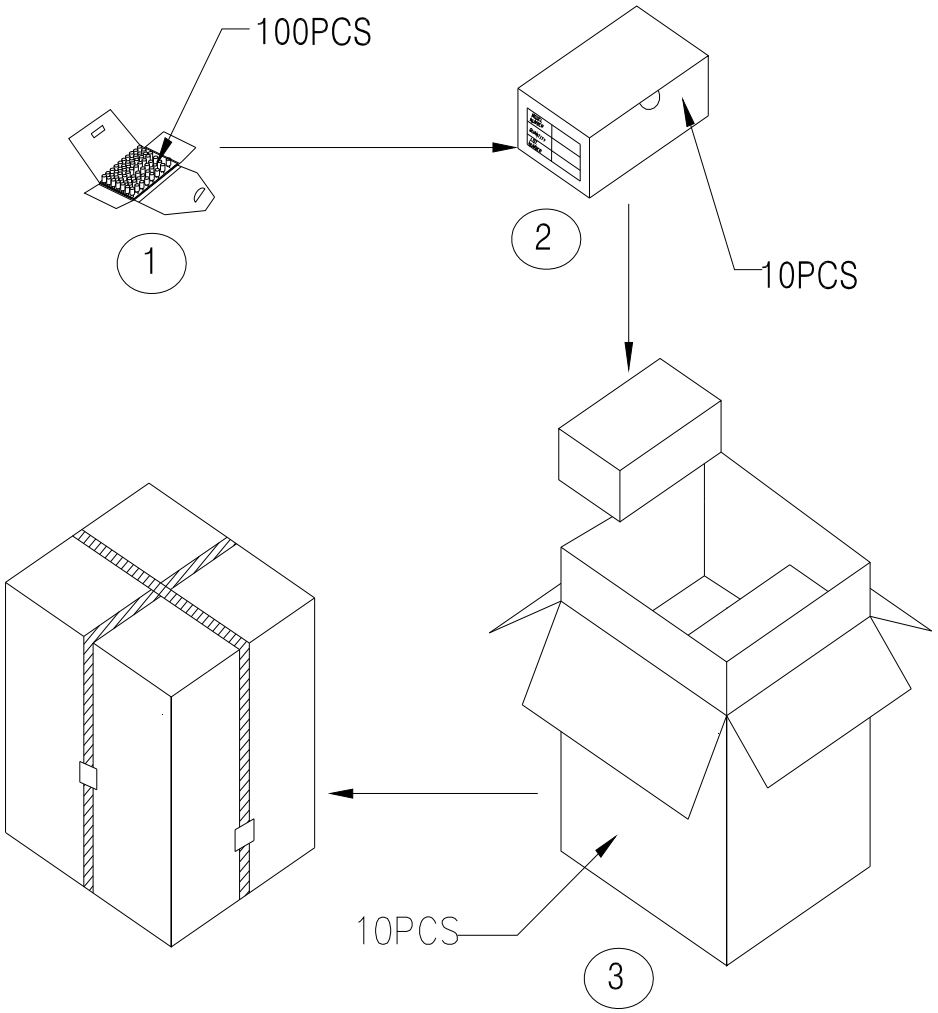
8. Packing



序号	名称	规　格	数　量
1	小包装盒	98mmx98mmx7mm	100PCSx1=100PCS
2	中包装盒	205mmx105mmx40mm	100PCSx10=1000PCS
3	大包装盒	230mmx230mmx250mm	1000PCSx10=10000PCS