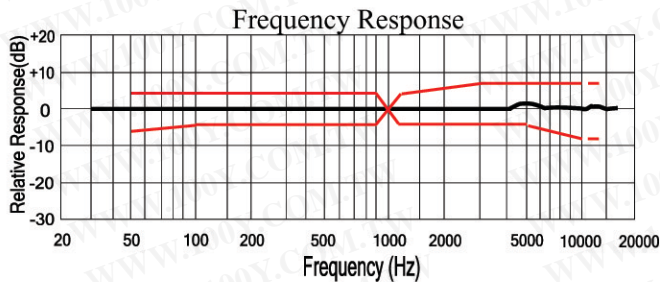


1.	Scope	This specification applies electret condenser microphone					
2.	Model No.	PVM-6050-1403S					
3.	Name: Omnidirectional Electret Condenser Microphone (Temp=20±2°C Room Humidity=65±5%)						
No	Parameter	Symbol	Condition	Limits			Unit
				Min.	Center	Max.	
3.1	Sensitivity	S	0dB=1V/Pa, at 1kHz	-43	-40	-37	dB
3.2	Output impedance	Z out	f=1kHz			2.2	K Ω
3.3	Current Consumption	I _{DSS}	V _{CC} =3.0V,R _L =2.2K Ω			500	μA
3.4	Signal to Noise Ratio	S/N	at 1kHz S.P.L=1Pa (A-Weighted Curve)	58			dB
3.5	Decreasing Voltage	Δ S-VS	V _{CC} =1.0V to3.0V			-3	dB
3.6	Operating Voltage			1.0		10	V
3.7	Maximum input S.P.L					110	dB

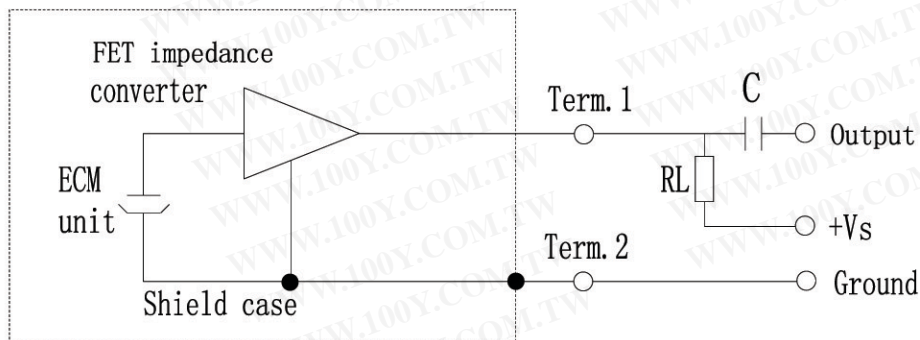
3.8 Typical Frequency Response Curve



Microphone Response Tolerance Window

Frequency(Hz)	Lower Limit(dB)	Upper Limit(dB)
50	-6	+3
100	-3	+3
800	-3	+3
1000	0	0
1200	-3	+3
3000	-3	+8
5000	-3	+8
10000	-8	+8

3.9 Measurement Circuit



Explain

R_L=2.2K Ω

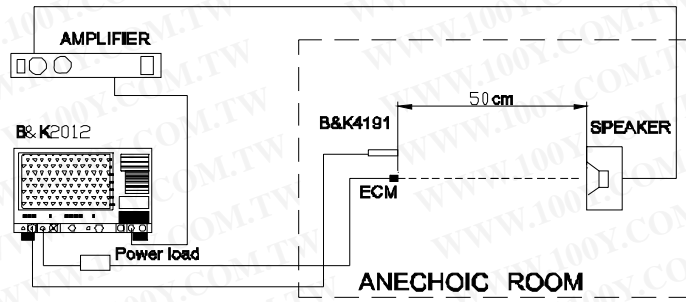
V_s =3.0V

C=1μF

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4.

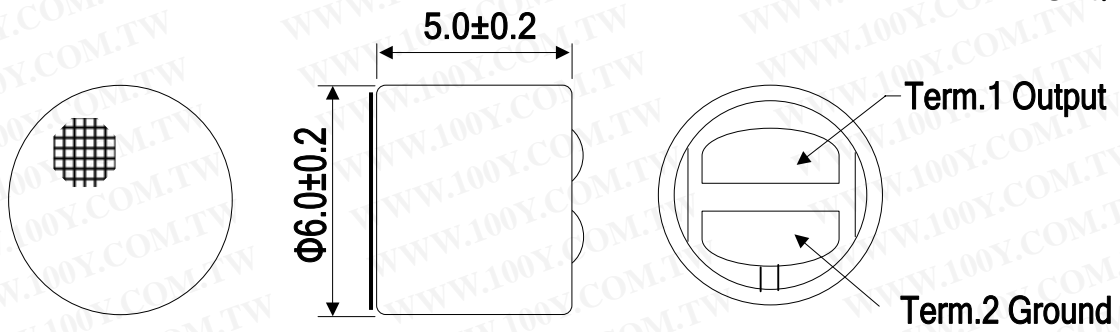
Test Setup Drawing



5.

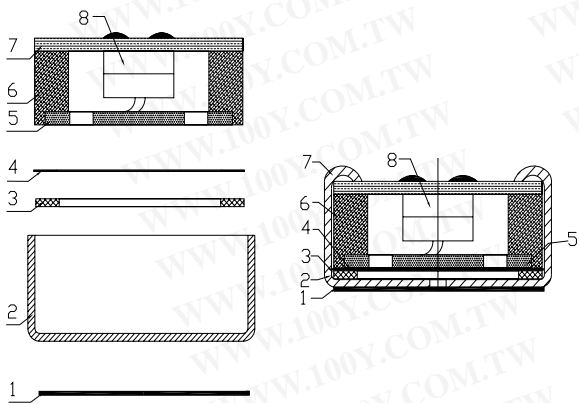
Appearance And Dimension

Unit: mm



6.

Drawing



8	FET		1	2SK596
7	P.C.B		1	FR-4
6	HOUSING CHAMBER	Gather formaldehyde	1	
5	ELECTRET	Copper blank	1	
4	SPACER	Mylar	1	
3	POLARIZED DIAPHRAGM	DUPONT	1	
2	CASE	Aluminum	1	
1	FELT	Fabric cloth	1	
No.	Name	material	QTY	Remark

7.

Temperature Conditions

Storage Temperature Range	Operation Temperature Range
-40°C ~ +75°C	-40°C ~ +75°C

8.

Terminal Mechanical Strength

Terminal mechanical strength to be no interference in operation after pulled the terminal with 1kg strength for 1 minute.

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9.

Reliability Test

After any following tests, the sensitivity of the microphone to be within $\pm 3\text{dB}$ of initial sensitivity after 3 hours of conditioning at 20°C .

9-1 Vibration

Frequency1 : 10Hz~55Hz
Amplitude : 1.52mm
Change of Frequency : 1 octave/min
2 hours in each of 3 axes

9-2 Dry Heat / Cold

$+70^\circ\text{C}$ / -20°C for 72 hours

9-3 Damp Heat

90%~95%RH, $+40^\circ\text{C}$ for 240 hours

9-4 Temperature Cycles

-20°C \longleftrightarrow 25°C \longleftrightarrow 70°C \longleftrightarrow -20°C
(2h) (1h) (2h) (1h) (2h) (2h) \times 10 cycles

9-5 Packing Drop Test

Height: 1m

Procedure: 5 times from each of 3 axis's

10. **Soldering Condition**

10-1 The soldering copper of a small type of 13~20W shall be applied.

10-2 The temperature of the working surface of the soldering copper shall be below 320°C .

10-3 ECM shall be soldered fixed on the metal block (heat sink), which has the higher radiation effects said heat sink shall contact with of ECM.

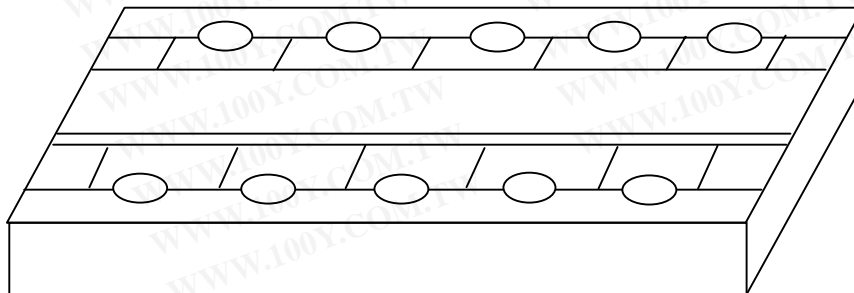
10-4 The soldering time for each terminal shall be 1~2 sec.

10-5 The pinhole after soldering shall be avoided.

10-6 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.

10-7 Heat Sink

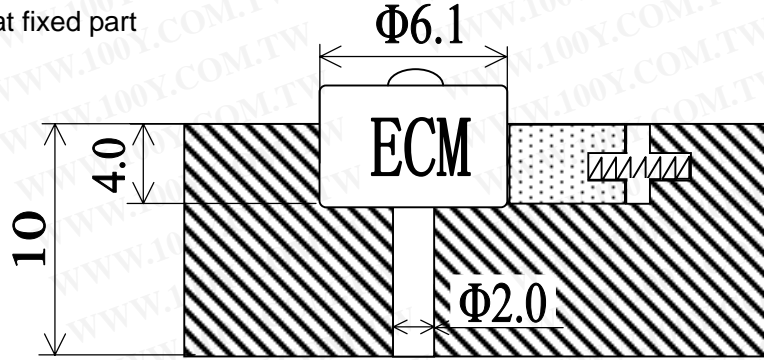
Shape of heat sink



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10.

Shape of hole at fixed part



11.

Packing Introduction

一. DIMENSION:(LENGTH*WIDTH*HEIGHT)

- a) AVOID STATIC BAG:
100mm*100mm*2mm
- b) SMALL PACKET
100mm*100mm*5mm
- c) MID PACKET:
205mm*105mm*50mm
- d) PAPER CASE:
550mm*230mm*235mm

二. EQUIPMENT

- a) ADHENSIVE TAPE MACHINE
- b) AUTO PACKER

三. PACKING INTRODUCTION

- a) 100PCS/ INHALE PLASTIC BOX
- b) 1000PCS/MID PACKET
- c) 20000PCS/PAPER CASE

四. QUANTITY INTRODUCTION

- a) 1PC=0.3g
- b) NET WEIGHT
PAPER CASE: 6.0kg
GROSS WEIGHT: 8.0kg

五. LABEL STIPULATION

- a. LABELEDEVERY BOXES
(SEE THE CHART)
- b.DIMENSIONS SHOULD BE SEEN EASILY

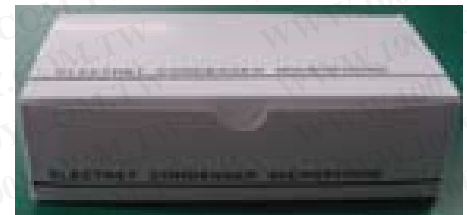
Packing chart



X1



X10



X20



20000PCS

100PCS

1000PCS