SPECIFICATION

受　控

Customer : QUARTZ-1

Applied To :

Product Name : MIC

Model Name : KPCM-G60H50P-56dB-1064

Drawing No. : KIC1064

Signature of Appronal

Signature of KEPO

Approved by	Checkde by	Issued by	Date

宁波凯普电子有限公司

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ISO9001 Certificate

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CONTENTS

1. Scope 范围

This specification applies electret condenser microphone.
此规格书适用于电容式麦克风.

2. General 概要

2.1 Out-Diameter : 6 mm

2.1.外径 : 6 mm

2.2 Height : 5 mm

2.2. 高度 : 5 mm

2.3 Weight : ≤0.3g

2.3 重量 : ≤0.3g

2.4 Operating Temperature range: '-20 ~+70℃ without loss of function

2.4 工作温度：-20 ~+70℃

2.5 Store Temperature range: '-20~+70℃ without loss of function

2.5 储存温度：-20~+70℃

3. Electrical and Acoustic Characteristics.电声参数

Test condition : 15 ~ 35 ℃, 45% ~ 85% RH, 860~1060 mbar
测试条件：15~35 ℃, 45%~85%RH , 860 ~ 1060mbar

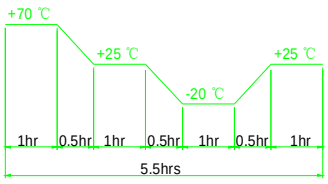
No	Items	Symbol	Unit	Specification	Condition
1	Directivity 指向性			Omni-directional 全指向性	
2	Sensitivity 灵敏度	S	dB	-56dB±3	0dB=1V/ubar,1KHz
3	StandardOperationVoltage 标准操作电压	Vs	V.D.C	4.5	
4	Output impedance 输出阻抗	Zout	KΩ	2.2	f=1KHz,1ubar
5	Max operating voltage 最大操作电压		V.D.C	10	
6	Sensitivity reduction 减压灵敏度	△S-Vs	dB	-3	f=1KHz,1ubar Vs=4.5-1.5V.D.C
7	Frequency 频率	f	Hz	100-10,000	
8	Max. Current Consumption最大耗电流	IDss	mA	0.5	Vs=4.5V,RL=2.2KΩ
9	Signal to noise ration 讯号对比杂音	S/N	dBA	58	f=1KHz,1ubar A weighted
10	Material 材质			AL 铝	
11	Terminal 端子				See appearance drawing请参照外观尺寸图
12	Environmental Protection Regulations 环保法规			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)
依I.E.C.(国际电子协会）建议，以"Pa"为灵敏度标示单位比"ubar"灵敏度标示单位增加20dB
l列如;-60dB(0dB=1V/ubar)=-40dB(1V/Pa)

4.1 Mechanical Characteristics 机械特性

No.	Item	Test Condition	Evaluation standard
1	Solderability 焊锡附着性 (Connector excepted) 端子类不适合此项	Strippd wires of lead wires are immersed in rosin for 5 seconds and then immersed in solder both of +270±5℃ for 3±0.5 seconds. 裸线部分侵入松香溶液5秒后，再侵入+270±5℃溶融焊锡槽3±0.5	90% minstripped wires shall be wet with solder .(Excepet the edge of terminal). 侵入裸线部分附着焊锡90%以上。（末端断面不算）
2	Lead Wire Pull Stength 线材拉力	The pull force shall be applied to double lead wire:Horizontal 4.9N (0.5kg) for 30 seconds. 双线材水平方向施以4.9N (0.5kg)的力量30秒。	No damage and cutting off. 线材不松动，不脱落
3	Vibration 振动试验	Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55Hz band of vibration frequency to each of 3 perpendicular directions for2 hour. 振幅为1.5mm，频率为10-50Hz，三个不同轴方向各振动2小时，试验后进行测量.	After any tests,the sensitivity to be within ±3dB 测试其灵敏度须与原测试值的差异不超过±3dB
4	Drop test 跌落试验	The microphone uint without packaged mst be subjected to each 3 drops a three axiss from the heigh of 1 meter to 20mm thick wodden board. 未包装麦克风单体从1公尺高处，X.Y.X 3个方向，各3回，落于20mm厚木板上。	

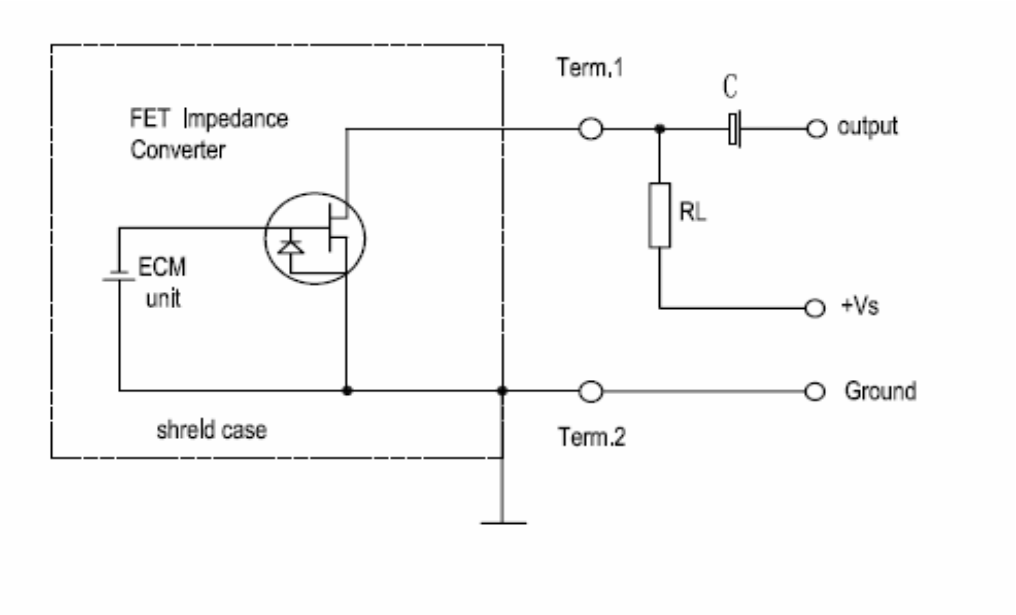
4.2 Environmental test 环境试验

No.	Item	Test Condition	Evaluation standard
1	High temperature test 高温测试	After being placed in a chamber at +70 ℃ for 72 hours. 置于+70 ℃环境中72小时.	After any tests,the sensitivity to be within ±3dB of initial sensitivity after6 hours of conditioning at +25℃ 经测试后麦克风，须静置于+25℃（室温）环境中6小时后，测试其灵敏度须与原测试值的差异不超过±3dB
2	Low temperature test 低温试验	After being placed in a chamber at -20℃ for 72 hours. 置于-20 ℃环境中72小时.	
3	Humidity Test 相对湿度试验	After being placed in a chamber at +40℃ and 90±5% relative humidity for 240 hours. 置于+40℃，相对湿度90±5%环境中240小时.	
4	Temperature cycle test 温度循环测试	The part shall be subjected to 10 cycles.One cycle shall be consist of： 单体承受温度循环测试10次，其循环内容如图示  	

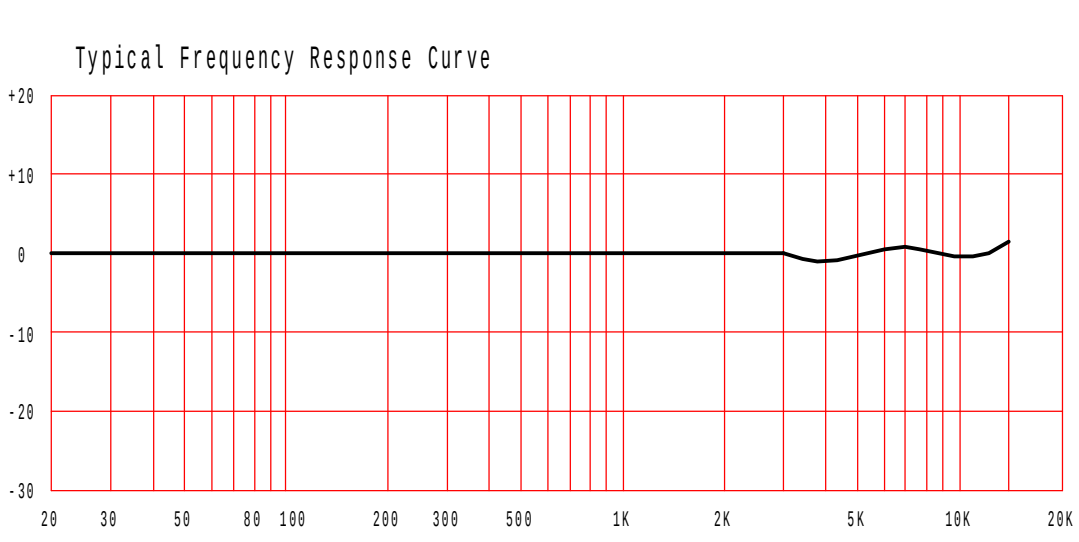
5. Measurement Block Diagram & Response curve
测试图和曲线图

5.1Measurement Block Diagram 测试图

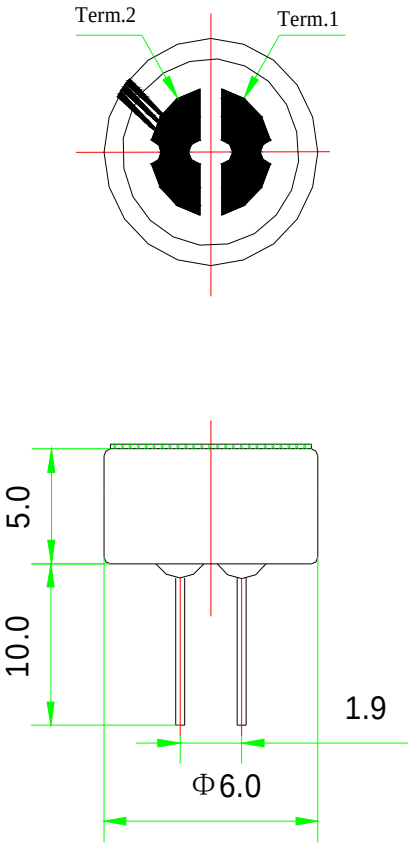
Schematic Diagram Vs= 4.5V ；R1=2.2KΩ



5.2 Response curve 曲线图



6. Dimensions 尺寸图

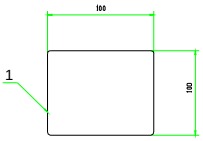


FIRST ANGLE PROJECTION

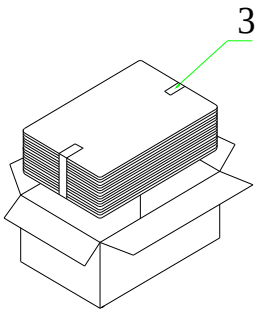
UNIT : mm

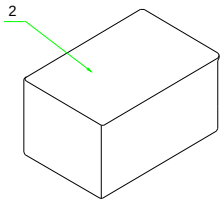
Tolerance : ±0.2

7. Packing 包装

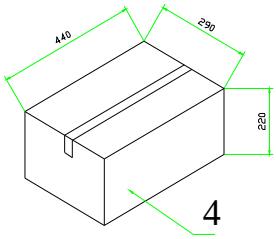


小包装
Inner Box
62X62X6
100Pcs





中包装
Middle Box
126× 66× 43
1000PCS



外包装
Outer Box
230X230X270
30000PCS

8. Revision 履历

Rev. No.	DATE	PAGE	DESCRIPTION	BOM
1.0	2009.12.01		Primary	