## SPECIFICATION

Customer : QUARTZ

Applied To :

Product Name : MIC

Model Name : KPCM-60H13P-58dB

Drawing No. : KF3.002.289

Signature of Approval

Signature of KEPO

Approved by	Checked by	Issued by	Date

Ningbo Kepo Electronics Co.,Ltd. *Address: No.25 Baoyuan Road Dongqian Lake Industrial Area Dongqian Lake, Ningbo315121, China Tel: +86(574)88371186, 88370330 http://www.chinaacoustic.com E-mail: Sales@kepo.com.cn* 

Specification		Page	2/6
		Revision No.	1.0
Model No. :	KPCM-60H13P-58dB	Drawing No.	KF3.002.289
CONTENTS			

1. Scope

2. General

3. Electrical and Acoustic Characteristics.

4. Reliability Test

5. Measurement Block Diagram & Response curve

6. Dimensions

Specification		Page	3/6
		Revision No.	1.0
Model No. :	KPCM-60H13P-58dB	Drawing No.	KF3.002.289

## 1. Scope

This specification is applied to the MIC which is used all of the electrical acoustic product.

-- applications: mobile phone, PDA, notebook computer, etc. ..

## 2. General

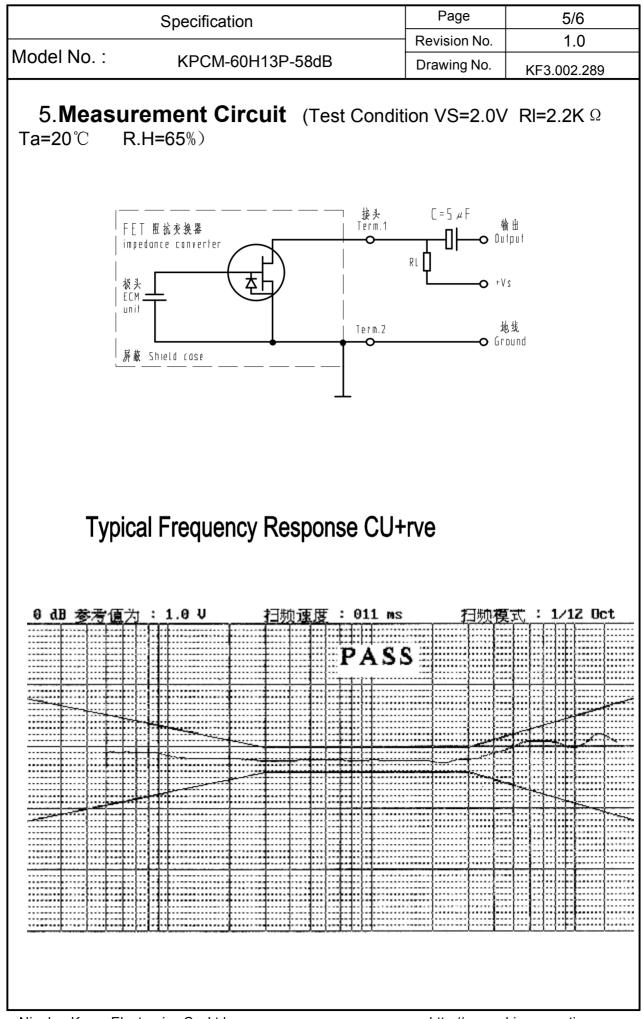
- 2.1 Out-Diameter : Ø60mm
- 2.2 Height : 1.5mm
- 2.3 Weight :  $\leq 0.3$ gr.
- 2.4 Operating Temperature range:
  - 20~+70  $^{\circ}$ C without loss of function
- 2.5 Store Temperature range: -20~+70 °C without loss of function

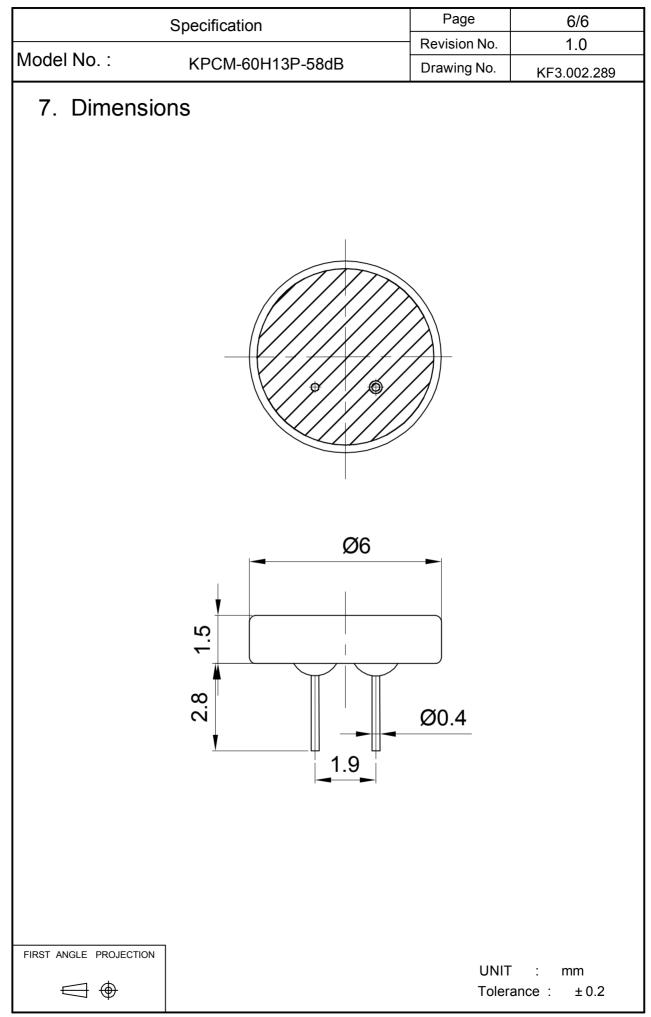
## 3. Electrical Characteristics.

Test condition : 15 ~ 35  $^\circ\mathrm{C},~$  35% ~ 85% RH, 860~1060 mbar

NO.	Items	Specifications
1	Rated Voltage	2.0V
2	Operating Voltage	1~10VDC
3	Sensitivity	-58± 2dB at 1KHz(0dB=1V/u bar)
4	Current Consumption	0.5mA Max
5	Frequency	100~16,000Hz
6	S/N Ratio	≥40dB
7	Directivity	Omnidirectional
8	Testing Condition	1000Hz, Vs=2.0V, RL=2.2K Ω
9	Shell Material/Color	AL/Silver
Note:		

Specification			Page	4/6
Model No. :			Revision No.	1.0
KPCM-60H13P-58dB		M-60H13P-58dB	Drawing No.	KF3.002.289
4.	Reliability Te	est ), the MIC sensitivity to be within	+/-3dB from initia	al sensitivity.
	Item	Specification		
1	High Temperature Test	After being placed in a chamber with $+70\pm3$ $^{\circ}$ C for 72hours and then being placed in natural condition for 1 hour		
2	Low Temperature Test	After being placed in a chamber with $-20\pm3~^{\circ}{\rm C}$ for 72 hours and then being placed in natural condition for 1 hour		
3	Damp Heat	After being placed in a chamber with 90%R.H. at +40 $\pm$ 2 $^{\circ}$ C for 96 hours and then being placed in natural condition for 120 hour, receiver shall be measured.		
4	Temperature Cycles	$-20^{\circ}C \leftarrow \rightarrow 25^{\circ}C \leftarrow \rightarrow 70^{\circ}C$ $(2h)(1h)(2h)(1h)(2h)$		
5	Shocks	Puise Duration 11ms Acceleration 150m/	inusoidal s2 ach of 3 axes	
6	Vibration	Frequency1 $10Hz\sim55Hz$ Amplitude $\pm 0.15mm$ Frequency2 $55Hz\sim150Hz$ Acceleration $20m/s$ Change of Frequency $1octave/m$ 2 hrs in each of 3 axes	in	
7				
8				





Ningbo Kepo Electronics Co.,Ltd.

	Specification	Page	7/7	
		Revision No.	1.0	
Model No. :	KPCM-60H13P-58dB	Drawing No.	KF3.002.289	
	oldering copper of a smaller typ be applied.	be of less that		
	8.2 The temperaure of the working surface of the soldering copper shall be below 270 $^\circ\! C$ .			
8.3 E.C.M shall be solderde fixed on the metal block (heat sink)which has the higher Radiation effects heat sink shall contact with each of E.C.M.				
8.4 The s	8.4 The soldering time for each terminal shall be 1~2 sec.			
8.5 The p	8.5 The pin hole soldering shall be avoided.			
8.6 E.C.M may easily destroyed by the static electricity, and the countermeasure for eliminating The staticelectricity (the ground for soldering copper, for worktable and for human body) shall be executed.				