

# 产品规格书

## SPECIFICATION OF PRODUCT

日期 (Date): 2009-03-27

品名 (Part Name): 驻极体麦克风

(Part Name): Electret Condenser Microphone

贵公司品号 (Part Number):

敝公司品号 (P/N): ZY9750W002B -47db (Omnidirectional)

承认印 (Stamp Of Reception)

XIAMEN HONCH INDUSTRIAL SUPPLIERS CO LTD

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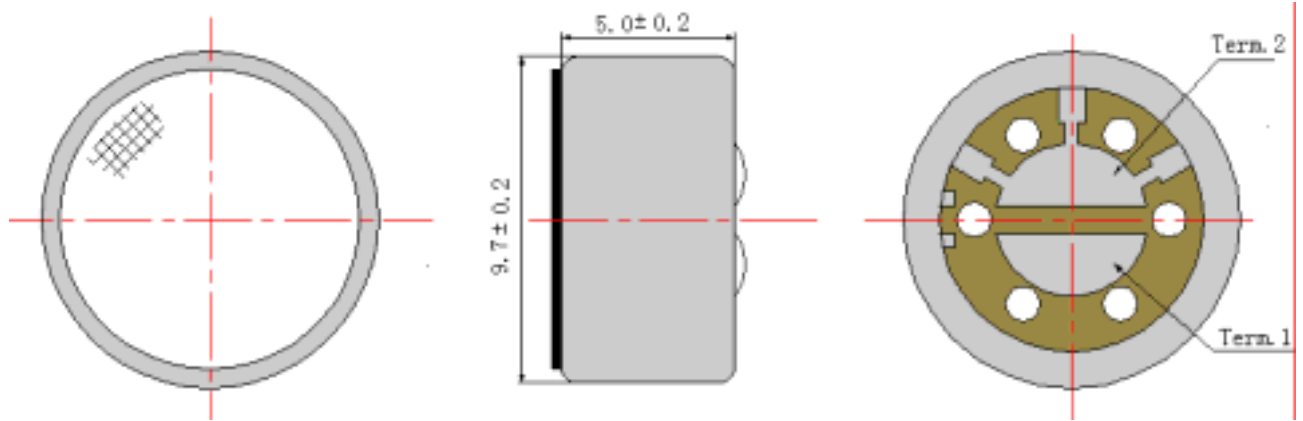
<http://www.honch-in.com>

Email: rogeryu@honch-ind.com

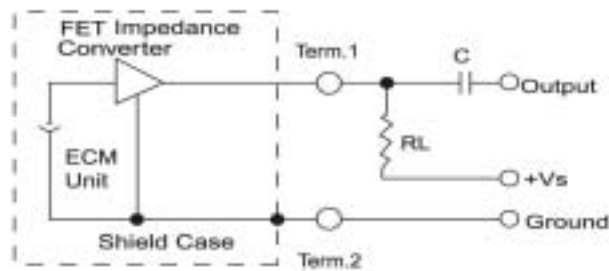
批准 Approved by	检查 Checked by	作成 Drafted by

## 1、 CONSTRUCTION

Dimensions:  $\phi 9.7 \times 5.0$  (Unit: mm)



## 2、 MEASUREMENT CIRCUIT



## 3、 SPECIFICATIONS

**-40dB** (  $0\text{dB}=1\text{V}/\text{Pa}$  ) = **-60dB** (  $0\text{dB}=1\text{V}/\text{bar}$  )

No.	Item	Standard
1	Sensitivity	$-47 \pm 2\text{dB}$ ( $0\text{dB}=1\text{V}/\text{Pa}$ )
2	Output Impedance	680
3	Directivity	Unidirectional
4	Frequency Range	100-16,000Hz
5	Operation Voltage	DC 1.0V-10V
6	Standard Power Supply	DC1.5V
7	Min Operation Voltage	1.5V

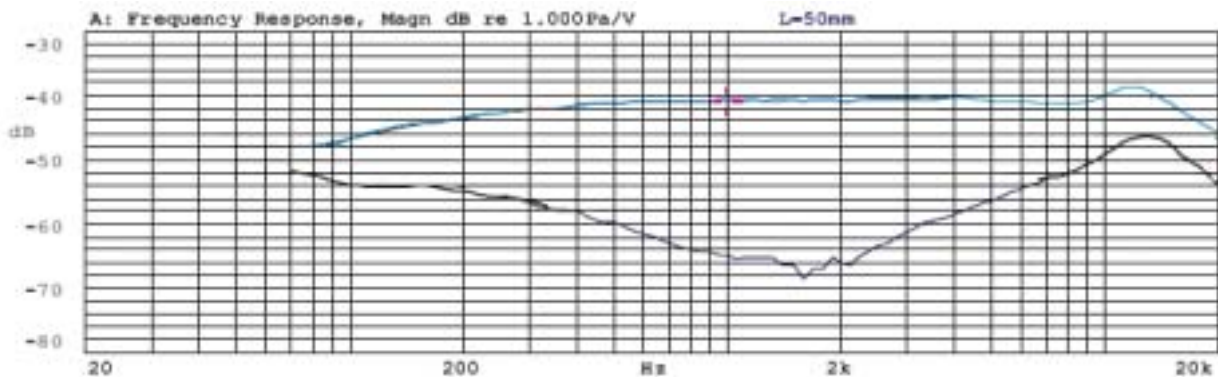
No.	Item	Standard
8	Current Consumption	0.5mA
9	Signal to Noise Ratio	60dB

#### 4、 ELECTRICAL SPECIFICATIONS

Test Condition ( $V_s=DC1.5V$ ,  $L=680\Omega$ , Temp=20 , Room Humidity=65%)

Item	Test Condition	Minimum	Standard	Maximum	Unit
Sensitivity	f=1kHz, P=1Pa	-49	-47	-45	dB
Output impedance	f=1kHz, P=1Pa			680	
Directivity	f=1kHz, P=1Pa				
Current Consumption				0.5	mA
Signal to Noise Ratio	f=1kHz, P=1Pa A curve	60			dB
Decreasing Voltage Characteristic	f=1kHz, P=1Pa $V_s=2V$ to 1.0V			-3	dB
Sound Pressure Level	f=1kHz	110			dB

#### 5、 FREQUENCY RESPONSE ALLOWANCE RANGE



#### 6、 MECHANICAL SPECIFICATION

Weight	Less than: 0.86g	
Soldering Heat Shock	To be no interfere in operation after soldering heat shock, Temperature 260 $\pm 5$ for 3 $\pm 0.5$ seconds.	
Terminal Mechanical Strength	To be no interfering in operation after pulled the terminal with 1kg strength for 1 minute.	
Absolute maximum Ratings	Operating Voltage	10V
	Storage temperature range	-25-+70

	Operating temperature range	-20-+60
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## 7、RELIABILITY TEST

Vibration Test	To be no interference in operation after vibration 10Hz to 50Hz for 1 minute full amplitude 1.52mm for 2 hour at three axes.
Drop Test	To be no interference in operation after dropped to concrete floor each one Time from 1 meter height at three directions in state of packing.
Temperature Test	a) After exposure at 60 for 200 hours, sensitivity to be within $\pm 3$ dB from initial sensitivity. (The measurement to be done after 2 hours of conditioning at 20 ) b) After exposure at -25 for 200 hours, sensitivity to be within $\pm 3$ dB from initial sensitivity. (The measurement to be done after 2 hours of conditioning at 20 )
Humidity Test	After exposure at 60 $\pm 2$ and 90 to 95% relative humidity for 200 hours, sensitivity to be within $\pm 3$ dB from initial sensitivity. (The measurement to be done after 2 hours of conditioning at 20 )
Temperature Cycle Test	After exposure at -25 for 30 minutes, at 20 for 10 minutes, at 70 for 30 minutes, at 20 for 10 minutes, 5 cycles, sensitivity to be within $\pm 3$ dB from initial sensitivity. (The measurement to be done after 2 hours of conditioning at 20 )

## 8、PART STOFF LIST

Item	Part Name	Material	Qty	Color	Supplier
1	BACK Electrode	BRASS TYPE (NI COATING)	1	Bright	CHINA
2	F. E. T	K596(B)	1	Black	CHINA
3	CASE	ALUMINIUM PLATES	1	Bright	CHINA
4	CLOTH	BLACK CLOTH	1	Black	CHINA
5	P. C. B	SINGLE-SIDE PHENOLIC RESIN	1	NATURE COLOR	CHINA
6	DIAPHRAGM	IMPORTED PLATE (Ni or AU COATING)	1	Bright	DUPONT USA
7	PLASTIC HOLDER	POLY CARBONATE	1	Bright	CHINA
8	GAP SPACER	POLYESTER FILM	1	Red	CHINA

9	Soundproof material	Soundproof Sea cotton	1	Yellow	JAPAN
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