



深圳市兴华鑫电子科技有限公司

Shenzhen xinghuaxin Electronic Technology Co., Ltd

承認書

SPECIFICATION FOR APPROVAL

客戶 (Customer):

客戶料號 (Customer P/N):

興華鑫型號 (Supplier P/N):

XHxDZ-9745 帶針

產品名稱 (Description):

咪頭 (Microphone)

產品規格 (Specification):

9.7*4.5MM -48±2dB

客戶承認欄 (Customer Authorization Signature)	深圳市興華鑫電子科技有限公司 承認欄 (Supplier Audit)		
	審核	檢查	制作
	唐国兴	唐玉来	吴银娟
	日期: 2022 年 04 月 19 日 版次: A		

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产品规格内容

1、Electrical Characteristics:

Test Condition (Vs=4.5V RL=2.2K Ω Ta=20℃ R. H. =70%)

Item	Symbol	Test Conditions	Minimum	Standard	Maximum	Unit
Sensitivity	S	Pin=1 Pa , f=1kHz	-46	-48	-50	dB
Output Impedance	Zout	Low Impedance				
Directivity		Unidirectional				
Current consumption	I				500	μ A
S/N ratio (A)	S/N (A)	Pin=1 Pa , f=1kHz (A Curve)	56			dB
Decreasing Voltage Characteristic	Δ S	Pin=1 Pa , f=1kHz Vs=2.0~1.5V			-3	dB
Operating Voltage		DC	1.5	4.5	10	V
Charging Type	Diaphragm					

2、Frequency Response Curve:

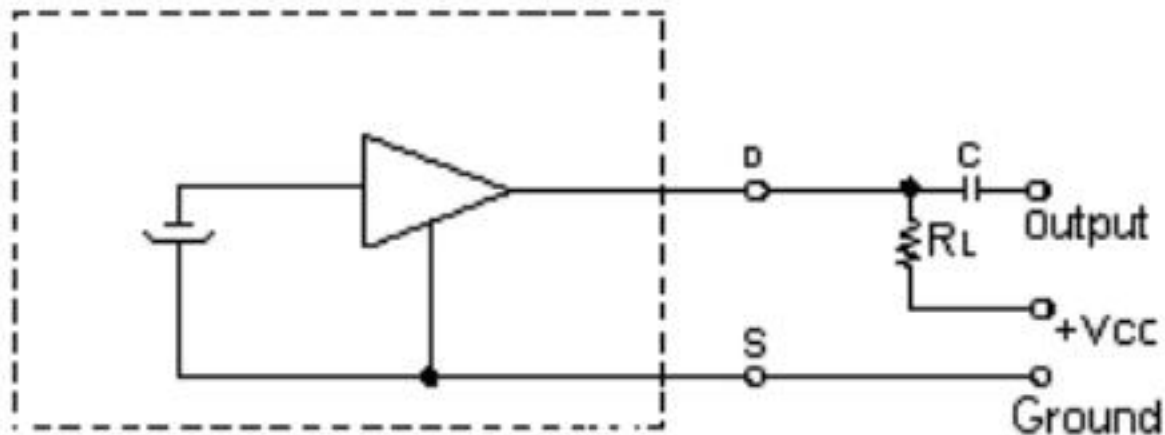


Frequency(Hz)	100	200	900	1000	1200	2000	4000	5000	8000
Upper Limit(dB)	3	3	3	0	3	5	6	6	6
Lower Limit(dB)	-3	-3	-3	0	-3	-3	-3	-3	-5

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3、Standard test circuit:



$R_L=2.2k\Omega$ (External resistor)

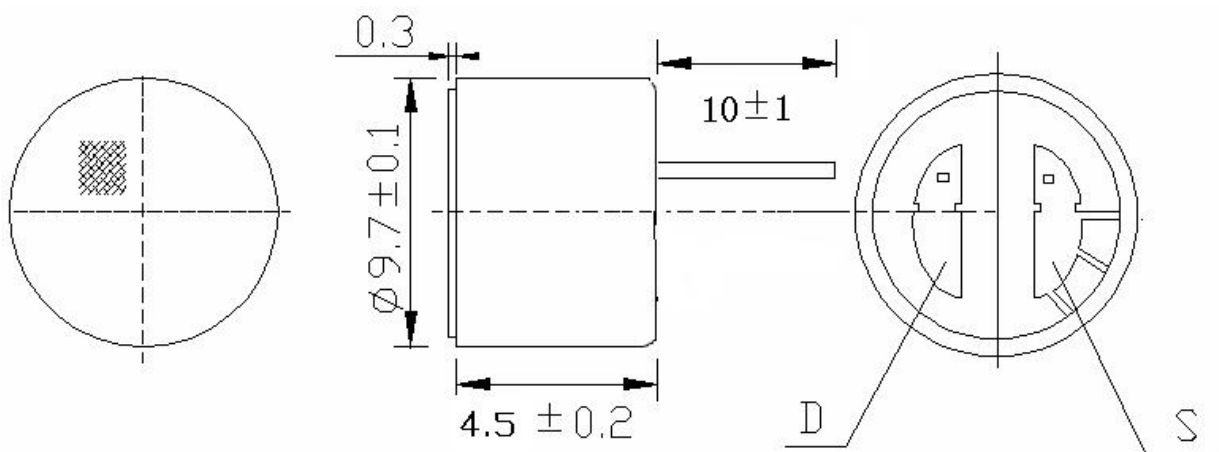
$+V_{CC}=4.5V$

$C=1\mu F$

4、Mechanical Characteristics

Dimension	See appearance drawing
Weight	Less than 1.0g
Operation Temperature	-30°C to $+70^{\circ}\text{C}$
Storage Temperature	-40°C to $+85^{\circ}\text{C}$

5、Appearance Drawing (Unit:mm)



6、 Reliability Tests

Vibration Test	Vibration cycle of 10 to 50 Hz/min, for 2 hours, full Amplitude 1.52mm, in 3directions. The sensitivity change within $\pm 3\text{dB}$ relative to initial value.
Drop Test	To be no interference in operation after drop from 1.5 Meter height onto aconcrete surface, each time at three direction in state of packing, The sensitivity change within $\pm 3\text{dB}$ relative to initial value.
Operating Life	Subject samples to $+70^{\circ}\text{C}$ for 1000 hours under full rated power.
High Temperature Test	The Microphone exposure at 70°C for 200 hours, then measuring the sensitivity after depositing 2 hours of conditioning at room temperature. The sensitivity change within $\pm 3\text{dB}$ relative to initial value.
Low Temperature Test	The Microphone exposure at -30°C for 200 hours, then measuring the sensitivity after depositing 2 hours of conditioning at room temperature. The sensitivity change within $\pm 3\text{dB}$ relative to initial value.
Static Humidity	Condition part at $+25^{\circ}\text{C}$ for 1 hour. Then expose to $+70^{\circ}\text{C}$ with 95% relativehumidity for 240 hours. Finally allow to dry at room ambient for 4 hours beforetaking final measurements, The sensitivity change within $\pm 3\text{dB}$ relative to initial value.
Temperature Shock	32 cycles of the following: 30 minutes at -40°C followed by 30 minutes at 85°C with a 20 second maximum transition time between temperature extremes, The sensitivity change within $\pm 3\text{dB}$ relative to initial value. 32 cycles of the following:30 minutes at -40°C followed by 30

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	minutes at 85°C with a 20 second maximum transition time between temperature extremes, The sensitivity change within $\pm 3\text{dB}$ relative to initial value.
Lead Pull Test (If applicable)	Subject test leads to an increasing pull force (between the wire or lead and the transducer) until destruction occurs. Record the point of destruction. The minimum pull strength is 1Kg (2.2 pounds).
Solder Heat Resistance (If applicable)	Flux the terminations using a RMA solder flux ,then manually immerse the terminations into a $260\pm 5^{\circ}\text{C}$ solder pot containing 63/37 solder for 10 to 11 seconds.

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7、Packing Specification

A、Small Packet 100pcs 100mmx100mmx5mm

(小包装盒 100 只/盒)

B、Middle Packet 1000pcs 210mmx150mmx40mm

(中包装盒 1000 只/盒)

C、Paper Case 10000pcs 230mmx220mmx200mm

(大包装盒 10000 只/盒)

