規格承認書

PECIFICATION FOR APPROVAL

客 戶		
CUSTOMER	:	
項目		
ITEM	: _	驻极体电容咪头(ECM)
型號		
TYPE	:	GMI6027P-2C20-38DB-RF75 通用型(灵敏度-20~-38db)
描述		
DESCRIPTION	: _	Φ 6.0 x 2.7 MM 插针 1033 -20-38dB 2.2V ≤2.2K Ω S/N: ≥ 75 dBA
客戶料號		
CUSTOMER NO	. :	
規格書號		
SPECIFICATION	NC	D.;
版本		
EDITION NO.	:	V1.2
日 期	•	
DATE	:	2020-1-9

客戶承認

CUSTOMER CONFIRM AND SIGN

檢查	審核	承認
TESTED BY	CHECKED BY	APPROVED BY

東莞市赢海電子有限公司

DONGUAN INGHAI ELECTRONICS CO.,LTD

製作	審查	確認
ISSUED BY	CHECKED BY	APPROVED BY
周明	刘承成	

地址: 廣東省東莞市虎门镇怀德社区雅瑶工业区

網址: HTTP://WWW.INGHAI.COM

A. SCOPE

This specification applies electret condenser microphone, GMI6027P-2C20-38DB-RF75

B. SPECIFICATION

■Test condition: RL=2.2KΩ VS=2.0V TEMP=25℃±2℃ Related humidity=65±5%

No.	Item	Symbol	Unit	Specification	Condition
1	Directivity			Omnidirectional	
2	Sensitivity	S	dB	-20~-38±3	f=1KHz,1Pa 0dB=1V/Pa
3	Standard operating voltage	V s	V	2.0	
4	Output impedance	Z out	ΚΩ	≤2.2	f=1KHz, 1Pa
5	Frequency		Hz	100-10000	
6	Max operating voltage		٧.	10	
7	Sensitivity reduction	△S-V s	dB	-3	f=1KHz, 1Pa Vs=1.5VDC to 3VDC
8	Max. current consumption	IDSS	mA	≤0.5	
9	Signal to noise ration	S/N	dBA	≥75	f=1KHz, P in=1Pa
10	Max. Sound Pressure Level	S.P.L	dB	110	
11	Operation temp.		$^{\circ}$	-20 ~+60	
12	Storage temp.		$^{\circ}$	-30 ~+70	
13	Dimension		mm	φ 6.0 x 2.7	See appearance drawing
14	Terminal			Terminal	See appearance drawing

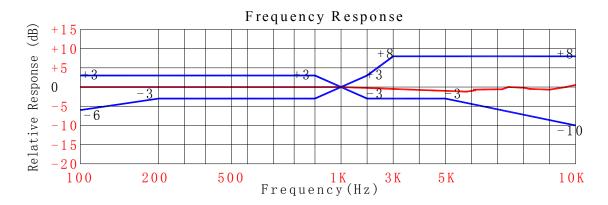
We use "Pascal(Pa)"indication of sensitivity as per the recommendation of I.E.C.(International Electro technical Commission)

The Sensitivity of "Pa" will increase 20dB comparing with "ubar" indication

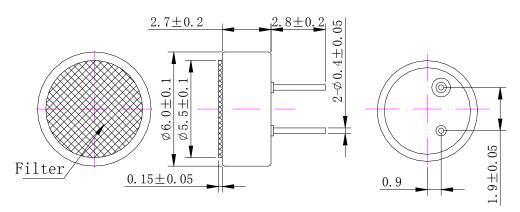
Example: -60dB(0dB=1V/ubar) = -40dB(1V/Pa)

C. TYPICAL FREQUENCY RESPONSE CURVE

全指向性

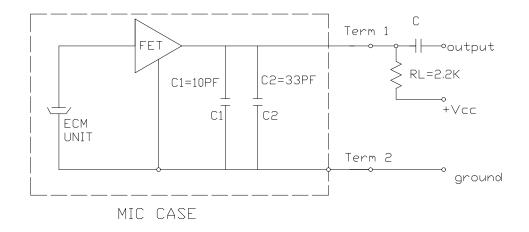


D. APPEARANCE DRAWING

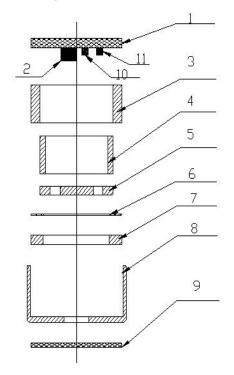


E. MEASUREMENT CIRCUIT

Vs:Source Voltage2. 0V R_L:Load Resistance2. 2K Ω



F: Explode Drawing



NO.	PARTS
1	РСВ
2	FET
3	Holder
4	Copper ring
5	Back plate
6	Spacer
7	Film
8	Outer most shell
9	Cloth
10	Capacitor
11	Capacitor

G. 可靠性试验 Reliability Test

经过以下所有试验在 20℃的条件下放置 3 小时后,麦克风的灵敏度与试验前比较变化在 3dB 以内

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

5-1 振动试验	周波数 1/Frequency1:10Hz~55Hz				
Vibration	振幅/Amplitude:1.52mm				
	变化/Change of Frequency:1 octave/min				
	3 方向,各 2 小时/hours in each of 3 axes				
5-2 高温试验	+90+5°C for 06 hours				
Dry Heat	+80±5℃ for 96 hours				
5-3 低温试验	-40±5℃ for 96 hours				
Dry Cold	-40±5C for 90 hours				
5-4 高温高湿试验	90%~95%RH,+70±5°C for 96 hours				
Damp Heat	90% 95%Mi, +10±5 C 101 90 Hours				
5-5 温度循环试验	-20°C				
Temperature cycles	(2h) (1h) (2h) (1h) (2h) \times 10 cycles				
5-6 跌落试验	Height:1m				
Packing drop test	顺序:三个面各跌 10 次				
	Procedure:10 times from each of 3 axises				
5-7 温度冲击试验	-20℃ ← 70℃				
Temperature impact test	30min 30s 30min ×10 cycles				
5-8 静电冲击试验	6000V(contact) 2000V(cir) × 10 avises				
Electrostatic shock test	$6000V(contact)$, $8000V(air) \times 10$ axises				
备注 Note					

6-1 工作温度范围 Operation Temperature	-20℃~70℃
6-2 储存温度范围 Storage Temperature	-40°C∼80°C

H. 焊接条件 Soldering Condition

7-1 焊接使用 90W 的烙铁。

The soldering copper of a type of 90W shall be applied

焊接条件

Soldering Condition.

7-2 电烙铁表面温度 320±10℃

The temperature of the working surface of the soldering copper shall be $320\pm10^{\circ}$ C

7-3 焊接时把麦克风嵌入散热能力强的金属块内。

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.

7-4 焊接时间控制在 2~3 秒内。

time for each terminal shall be $2\sim3$ sec.

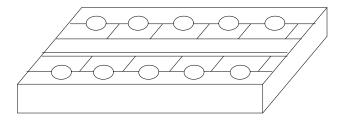
7-5 焊接后不能出现针孔。

The pinhole after soldering shall be avoided.

7-6 静电容易破坏麦克风必须采取措施避免(电烙铁接地,戴静电环等。)

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.

7-7 散热板形状 Shape of heat sink



7-8 固定部孔形状 Shape of hole at fixed part

