

規格承認書

PECIFICATION FOR APPROVAL

客戶
CUSTOMER : _____
項目
ITEM : 駐極體電容咪頭 (ECM)
型號
TYPE : GMI6027P-2C30-66DB
描述
DESCRIPTION : $\phi 6.0 \times 2.7 \text{ MM}$ -30-66 dB $\leq 2.2\text{K}\Omega$ S/N: $\geq 55 \text{ dBA}$
客戶料號
CUSTOMER NO. : _____
規格書號
SPECIFICATION NO.: _____
版本
EDITION NO. : V1.0
日期
DATE : _____

客戶承認

CUSTOMER CONFIRM AND SIGN

檢查 TESTED BY	審核 CHECKED BY	承認 APPROVED BY

東莞市贏海電子有限公司

DONGUAN INGHAI ELECTRONICS CO.,LTD

製作 ISSUED BY	審查 CHECKED BY	確認 APPROVED BY
周明	李林	李勇

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A. SCOPE

This specification applies electret condenser microphone, GMI6027P-2C30-66DB

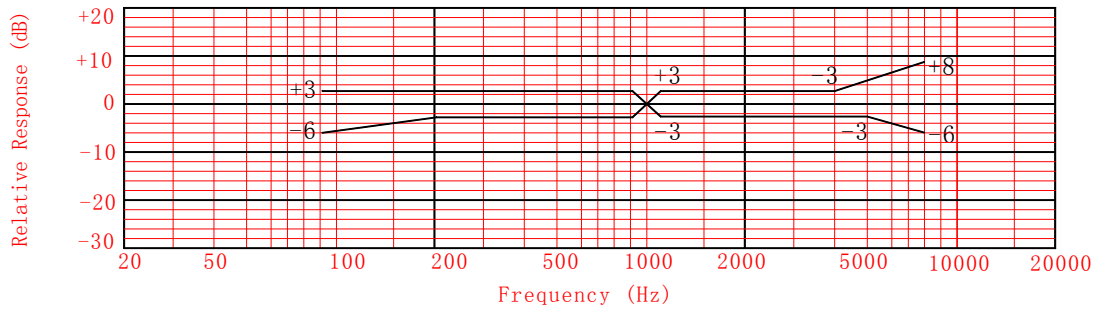
B. SPECIFICATION

■ Test condition: $R_L=2.2K\Omega$ $V_S=2.0V$ $TEMP=25^{\circ}C\pm 2^{\circ}C$ Related humidity= $65\pm 5\%$

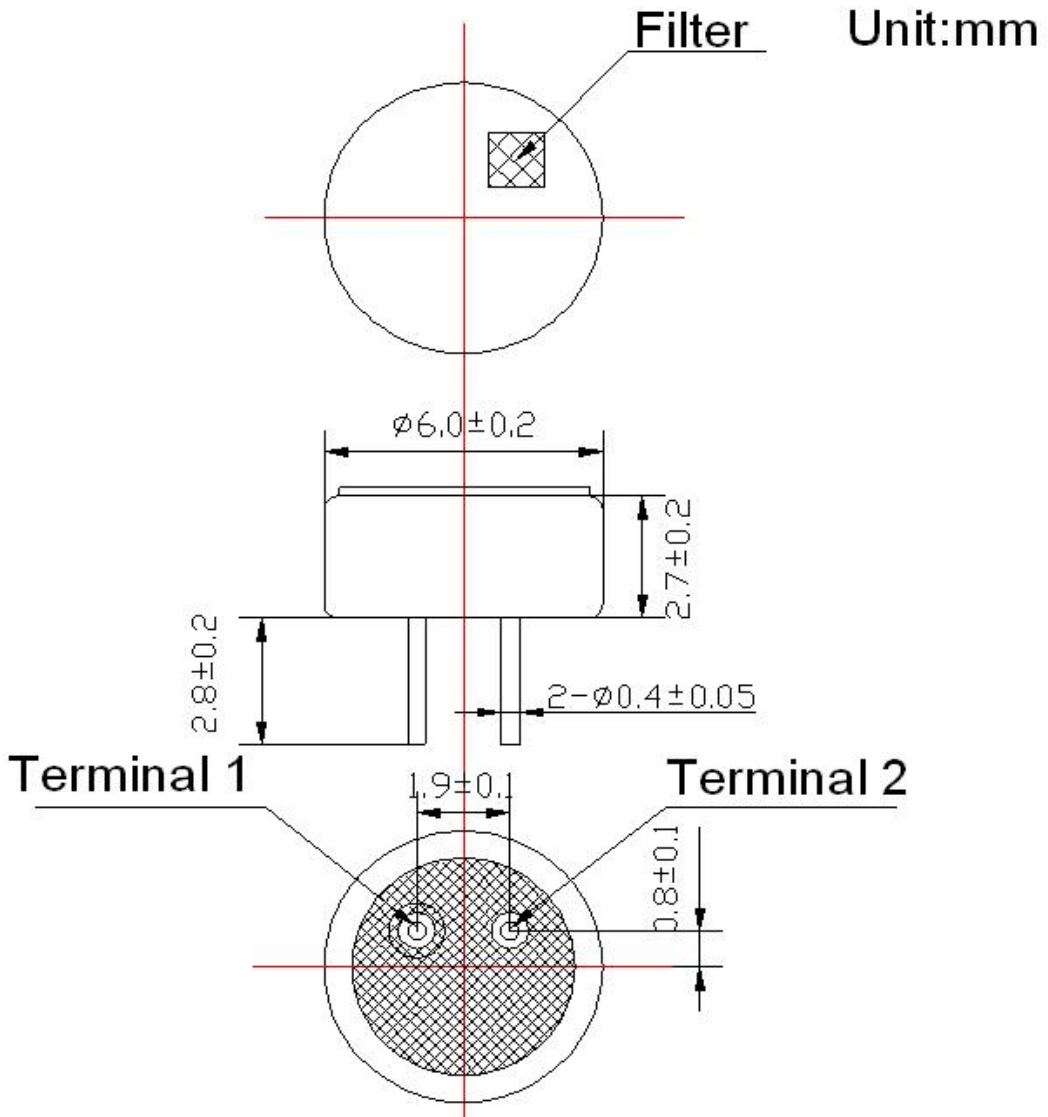
No.	Item	Symbol	Unit	Specification	Condition
1	Directivity			Omnidirectional	
2	Sensitivity	S	dB	-30-66±3	f=1KHz, 1Pa 0dB=1V/Pa
3	Standard operating voltage	V_s	V	2.0	
4	Output impedance	Z_{out}	K Ω	≤2.2	f=1KHz, 1Pa
5	Max operating voltage		V .	10	
6	Sensitivity reduction	Δ S-V_s	dB	-3	f=1KHz, 1Pa V _s =2.0VDC to 1.5VDC
7	Max. current consumption	I_{DSS}	mA	≤0.5	
8	Signal to noise ration	S/N	dB	≥55	f=1KHz, P _{in} =1Pa
9	Max. Sound Pressure Level	S.P.L	dB	115	
10	Operation temp.		°C	-10 ~+60	
11	Storage temp.		°C	-20 ~+70	
12	Dimension		mm	φ 6.0 x 2.7	See appearance drawing
13	Terminal			Terminal	See appearance drawing

C.TYPICAL FREQUENCY RESPONSE CURVE

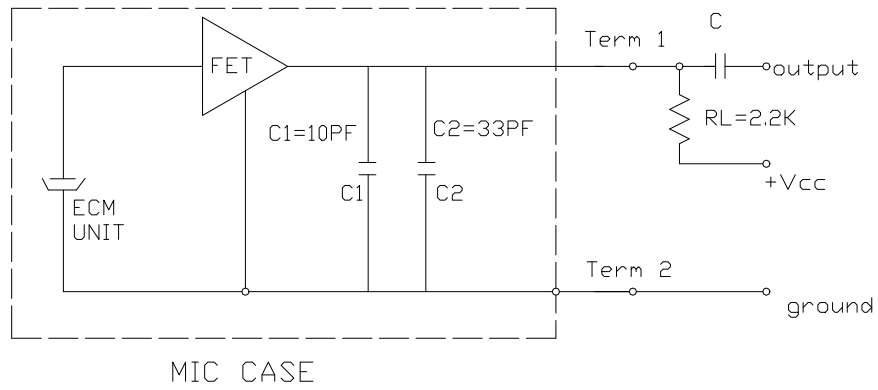
全指向性



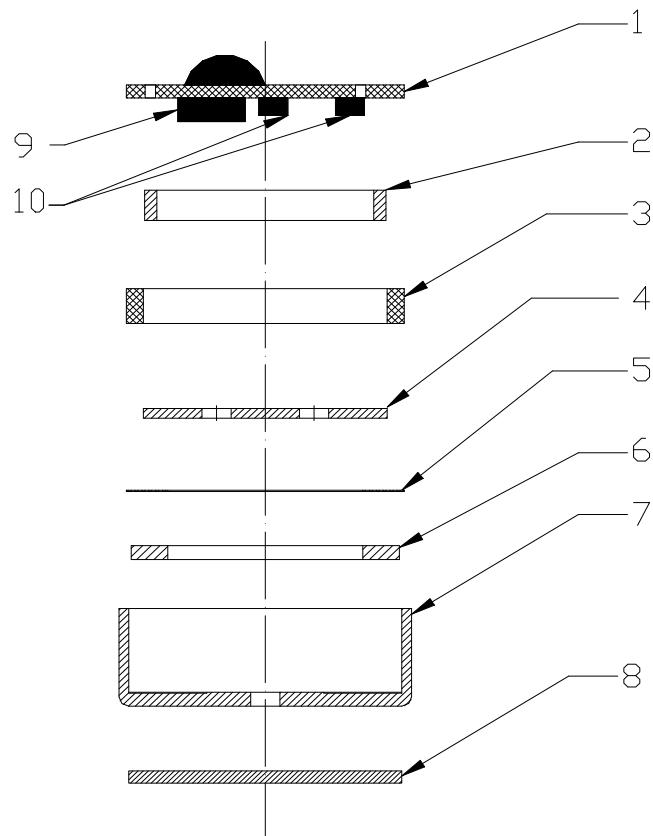
D. APPEARANCE DRAWING



E. MEASUREMENT CIRCUIT



F :Explode Drawing



NO.	PARTS
1	PCB
2	Connector
3	Holder
4	Back plate
5	Spacer
6	Film (FEP)
7	Outer most shell (Al)
8	Protection fleece
9	FET
10	Capacitance

G : Reliability Test

可靠性试验 Reliability Test	
经过以下所有试验在 20°C 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 $\pm 3\text{dB}$ of initial sensitivity after 3hours of conditioning at 20°C	
振动试验 Vibration	周波数 1/Frequency1:10Hz~55Hz 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
高温试验 Dry Heat	+80 \pm 5°C for 96 hours
低温试验 Dry Cold	-40 \pm 5°C for 96 hours
高温高湿试验 Damp Heat	90%~95%RH, +60 \pm 5°C for 96 hours
温度循环试验 Temperature cycles	-20°C \longleftrightarrow 25°C \longleftrightarrow 70°C (2h) (1h) (2h) (1h) (2h) \times 10 cycles
跌落试验 Packing drop test	Height:1m 顺序:三个面各跌 10 次 Procedure:10 times from each of 3 axes
温度冲击试验 Temperature impact test	-20°C \longleftrightarrow 70°C 30min 30s 30min \times 10 cycles
静电冲击试验 Electrostatic shock test	6000V(contact), 15000V(air) \times 10 axes
备注 Note	
工作温度范围 Operation Temperature	-30°C ~ 75°C
储存温度范围 Storage Temperature	-40°C ~ 85°C