規格承認書

PECIFICATION FOR APPROVAL

客 戶

CUSTOMER : 通用型规格书

項目

ITEM: 驻极体电容咪头(ECM)全指向

型號

TYPE : GMDO9445CST-41~49DB

描述

客戶料號

CUSTOMER NO. :

規格書號

SPECIFICATION NO.: 会议、头戴、直播产品专用

版本

EDITION NO. : V1.0

日 期

DATE : 2023-2-15

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	李勇	

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1. Electrical characteristics:

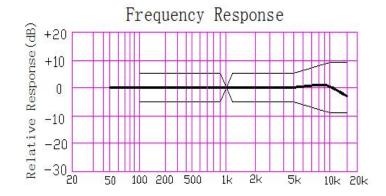
Directivity	Omnidirectional
Pb containation Requirement	Lead free
Charging type	Diaphragm
Sensitivity	-41~-49±2dB (0dB=1V/Pa, 1KHz)
Impedance	1ΚΩ
Standard operating voltage	4. 5V
Operating voltage range	1V-10V
Current consumption	less than 500 µ A
Voltage deduction characteristic	Within 3dB at 1.5V
S/N Ratio	More than 62dB(SPL=1Pa, 1KHz, A-weighting)

2. Frequency Response and Schematic Diagram:

2.1 Typical Frequency Response Curve:

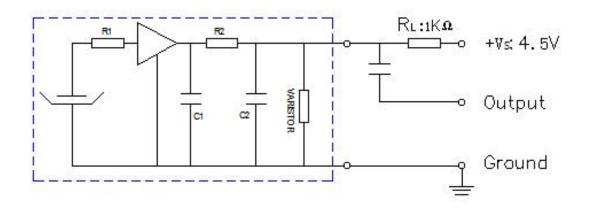
Frequency Response

Microphone Response Tolerance Window



Proquency (fix)	Lower Limit (db)	Upper Limit (db)
100	-10	5
200	-5	5
800	-5	5
1000	0	0
1200	-5	5
2000	-5	5
5000	-5	5
10000	-8	8
20000	-6	8

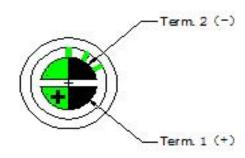
2.2 Schematic Diagram: R1=1K Ω R2=100 Ω C1=10PF C2=33PF VARISTOR: MVR0603-8R0G

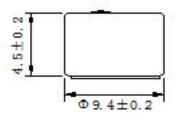


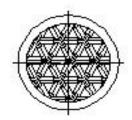
3. Mechanical characteristics:

- 3.1 Weight:Less than 0.8g
- 3.2 Dimension:

Unit:mm







4. Soldering Condition

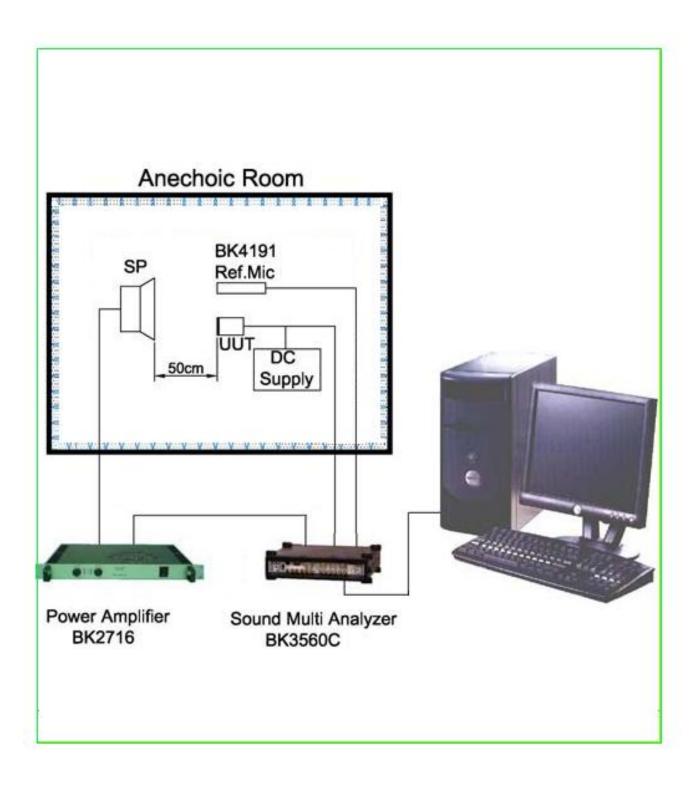
- **4.1** The soldering copper of a small type of $13 \sim 20$ W shall be applied.
- **4.2** The temperature of the working surface of the soldering copper shall be below 320℃.
- **4.3** ECM shall be soldered fixed on the metal block (heat sink), which has the higher radiation effects said heat sink shall contact with of ECM.
- **4.4** The soldering time for each terminal shall be 1~2 sec.
- **4.5** The pinhole after soldering shall be avoided.
- **4.6** 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

5. PACKAGING:

小包装	SMALL PACKET 100mm*100mm*6mm 100PCS	6mm
中包装	MID PACKET: 205mm*105mm*50mm 1400PCS	中包装盒(1400只)
大包装	PAPER CASE: 280mm*215mm*245mm 14000PCS	大包装箱(14000只)

6. TEST SETUP DRAWING

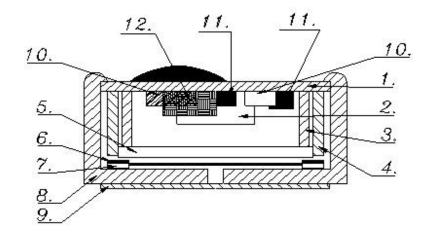
Standard Frequency Response Test



7. Reliablity test:

Item		Test condition	Evaluation
1	High temperature Test	The part shall be capable of with— standing a storage temperature of +70°C for 200 hours.	
2	Low temperature Test	The part shall be capable of with— standing a storage temperature of −20 °C for 200 hours.	
3	Temperature cycle test	The part shall be subjected to 5 cycle. One cycle shall consist of (+70 $^{\circ}$ C ,30min \rightarrow Room temp(+20 $^{\circ}$ C), 10min \rightarrow -20 $^{\circ}$ C30min \rightarrow Room temp(+20 $^{\circ}$ C), 10min)	After the test the ECM unit shall meet the requirement of no more than $\pm 3 \mathrm{dB}$ variation from
4	Humidity Test	The part shall be capable of with—standing a storage of humidity of $90\sim95\%$ at the $+40\%$ for 200 hours.	initial sensitivity after 2 hours recovering.
5	Drop Test	The microphone unit without package must be subjected to each 3 drops at three axises from the height of 1 meter to 20 mm thick hardwood board.	
6	Vibration Test	The microphone unit must be subjected to each 2 hours vibrations at three axises 2mm dynamic range, 10~50Hz/minute.	
7	Soldering Heat Resistance	Soldering iron of $+330 \pm 5 ^{\circ} \text{C}$ should be placed on the terminal for 2 ± 0.5 seconds.	

8.Drawing



1	PCB	7	振膜
2	FET	8	外壳
3	连接环	9	防尘网
4	塑环	10	电容
5	极板	11	电阻
6	垫片	12	VARISTOR