

Electret Condenser Microphone

Customer	
Customer P/O	
BeStar Model Name	BCM9767-36
Product No.	190601
Issue No.	BS/TEM01.009A
Issue Date	02/08/20

Approval :

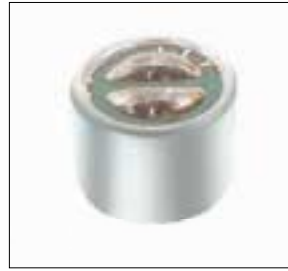
1. Characteristics
2. Appearance
3. Environment Test



BESTAR ELECTRONICS INDUSTRY CO.,LTD
TianAn Industry Park4/F,Site B ChangZhou New District
Tel:86-519-5103228
Fax:86-519-5131010
E-Mail:wu@be-star.com
Http:www.be-star.com

BCM9767-36

Useful for tape recorders, toys, telephones, and almost any other applications

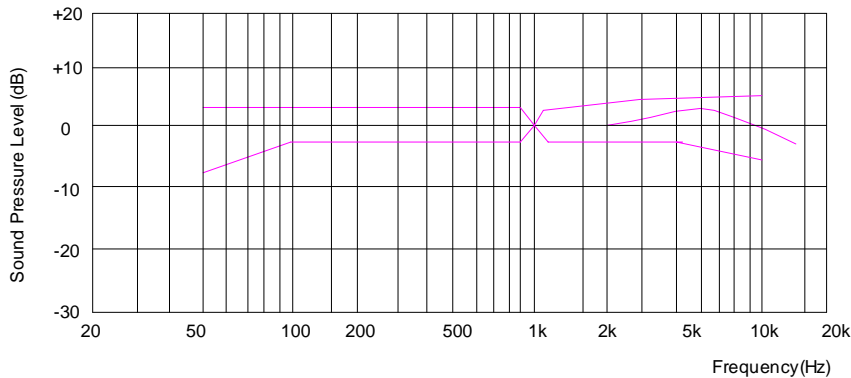


1. Characteristics


Test Condition (Vs=3.0V RL=2.2kohm Ta=20°C R.H.=65%)

No.	Item	Specifications
1	Sensitivity	-36 ± 2dB(0dB=1V/Pa,1kHz)
2	Impedance	2.2kohm ± 30% at1kHz
3	Current Consumption	0.4mA Max.
4	Directional	Omnidirectional
5	S/N Ratio	more than 60dB(0dB=1V/Pa,1kHz)
6	Max. Input Sound Level	100dB S.P.L
7	Frequency Response	20Hz~20kHz
8	Rated Voltage	3.0V
9	Operating Voltage	1.5V~10V
10	Decreasing Voltage Characteristic	-3dB(Vs=1.5V)

★Frequency Resonse Curve

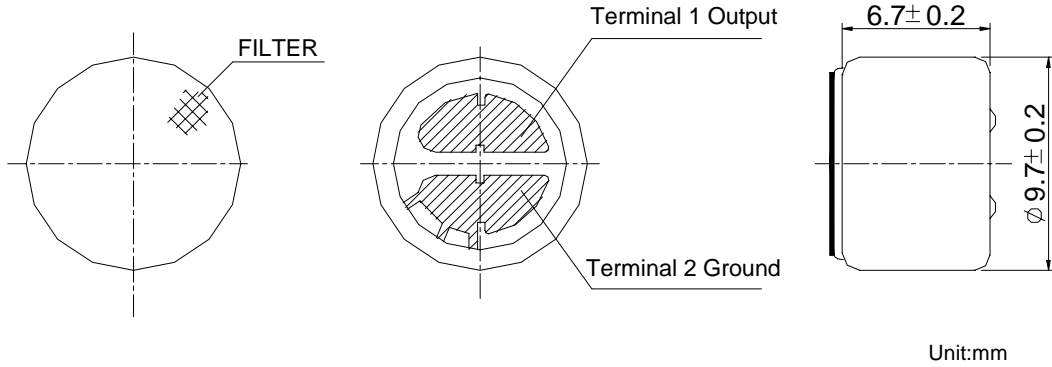


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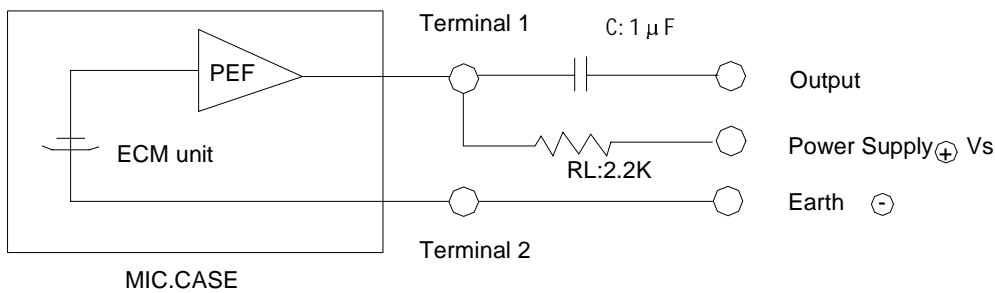
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2.Appearance



Measurement Circuit:



Cautions:

- 1.The soldering copper of a smaller type of less than 20W shall be applied.
- 2.The temperature of the working surface of the soldering copper shall be below 270 °C
- 3.ECM shall be soldered fixed on the metal block (heat sink)which has the higher radiation effects said heat sink shall contact with each of ECM.
- 4.The soldering time for each terminal shall be 1~2 seconds.
- 5.The pin hole after soldering shall be avoided.
- 6.ECM may easily destroyed by the static electricity.and the countermeasure for elimination the static electricity (the ground or soldering copper,for worktable and for human body) shall be executed.
- 7.After soldering ECM keeps 2 hours ,SPL shall be tested .
- 8.Environment Test Condition: temperature : $20 \pm 2^{\circ}\text{C}$ humidity $\leq 65\%$

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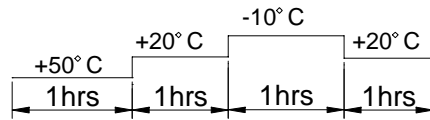
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3.Environment Test

- 3.1 High temp.life test
 - Temperature +70° C
 - Duration 200hrs
- 3.2 Low temp.life test
 - Temperature -25° C
 - Duration 200hrs
- 3.3 Temperature cycle test
 - Cycles 5



- 3.4 Humidity Test
 - Temperature +40° C
 - Relative Humidity 90~95%
 - Duration 200hrs

Tests above should be measured after leaving normal temperature for 6hrs.
- 3.5 Vibration Test
 - Vibration Frequency 10~55Hz
 - Amplitude 1.52mm/min
 - Direction 3(x.y&z)
 - Duration 2hrs each cycle(total 6 hrs)
- 3.6 Drop test
 - Height 1m
 - (Dropped to 20mm thick hardwood board without packing.)
 - Direction 3
- 3.7 Soldering Heat Shock
 - Temperature 260° C± 5
 - Duration 3± 1 sec
- 3.8 Terminal Mechanical Strength
 - Strength 1kg
 - Duration 1 min
- 3.9 Storage Temperature: -20° C~+60° C

Notice:

All specifications must be satisfied in this condition.
Sensitivity :Allowable deviation within ± 3dB from initial sensitivity.

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