

Electret Condenser Microphone

Customer	
Customer P/O	
BeStar Model Name	BCM9765P-44
Product No.	190505
Issue No.	BS/TEM01.046A
Issue Date	03/10/20

Approval:

1. Characteristic
2. Appearance
3. Environment Test



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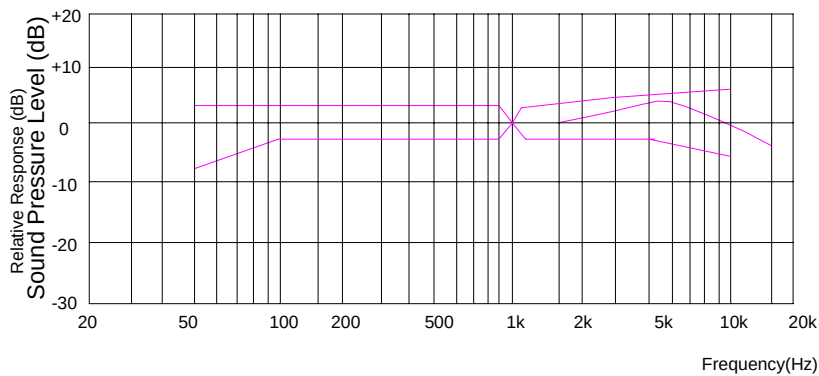
BCM9765P-44

1. Characteristics

Test Condition (Vs=4.5V RL=2.2Kohm Ta=20° C R.H.=65%)

No.	Item	Specifications
1	Sensitivity	-44± 2dB(0dB=1V/Pa,1kHz)
2	Impedance	2.2± 30%kohm at 1KHz
3	Current Consumption	0.8mA Max.
4	Standard operation voltage	1.5-10V
5	Directional	Omnidirectional
6	S/N Ratio	more than 60dB(0dB=1V/Pa,1kHz)
7	Max. Input Sound Level	100dB S.P.L
8	Frequency Response	20Hz~16kHz
9	Decreasing Voltage Characteristic	-3dB(Vs=4.5V-3V)
10	Weight	Less than 1.3g

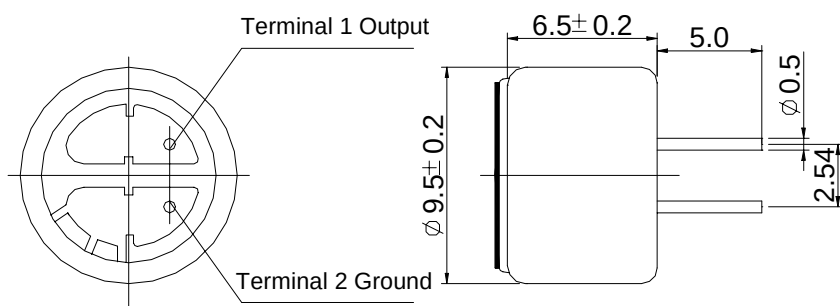
★Frequency Resonse Curve



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CHEC.		DATE		3rd angle projection	
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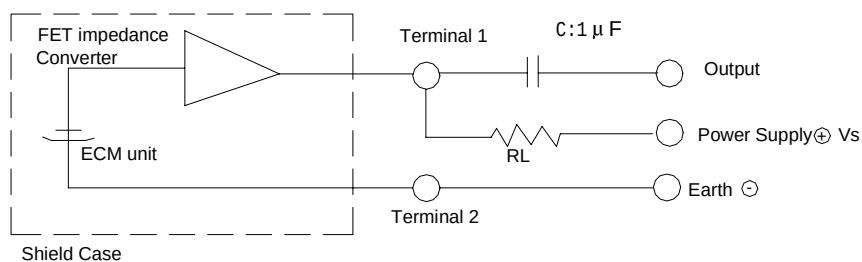
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2.Appearance



Unit:mm

Measurement Circuit:



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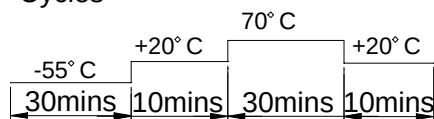
BCM9765P-44

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 +60° 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± 5° C
Duration 10± 1 sec

3.8 Terminal Mechanical Strength
Strength 1kg
Duration 1 min

3.9 Storage Temperature: -20~+60° C

Notice:

All specifications must be satisfied in this condition.

Sensitivity :Allowable deviation within ± 3dB from initial sensitivity.

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