

## Electret Condenser Microphone

Customer	
Customer P/O	
BeStar Model Name	BCM9765
Product No.	190500
Issue No.	BS/TEM01.001A
Issue Date	02/05/20

### Approval :

- 1.Technical Terms
- 2.Appearance
- 3.Reliability Test



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## Electret Condenser Microphone

Model:BCM9765

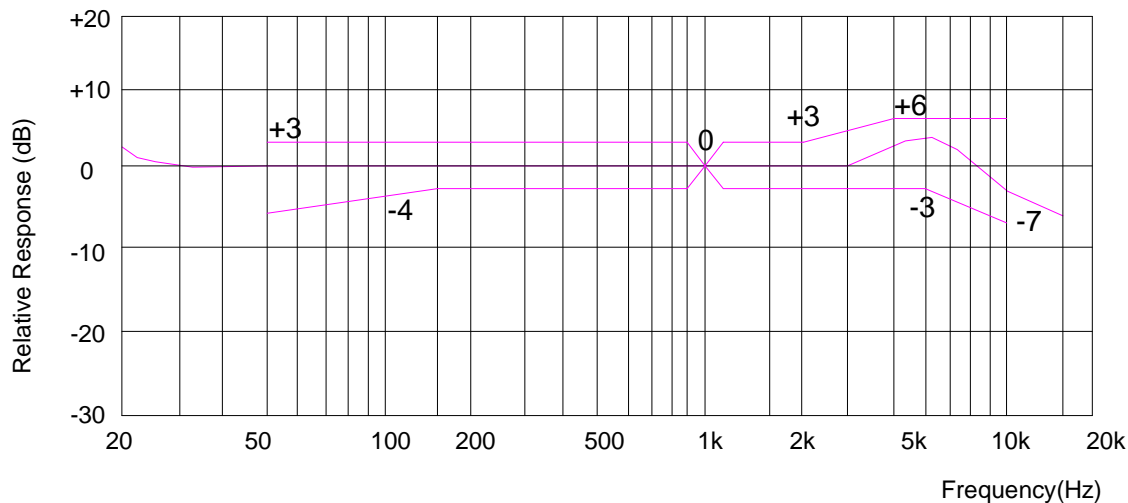
### 1. Technical Terms


#### 1.1 Electrical Characteristics

Test Condition( $V_s=6V$   $R_L=1K\Omega$   $T_a=20^\circ C$   $R.H=55\%$ )

Item	Symbol	Condition	Minimum	Standard	Maximum	Unit
Sensitivity	S	$f=1kHz, P_{in}=1\mu bar$	-64	-62.5	-61	dB(0dB=1V/Pa)
Output Impedance	Zout	$f=1kHz$			1k	Kohm
Directivity	Omnidirectional					
Current Consumption	I				400	uA
S/N Ratio	S/N(A)	$f=1kHz, P_{in}=1\mu bar$ (A Curve)	40			dB
Decreasing	$\Delta S$	$f=1kHz, V_s=4.5-1.5V$			-3	dB

#### 1.2 Typical Frequency Response



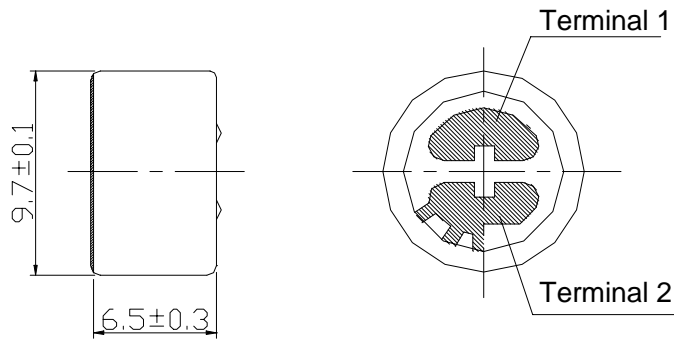
DIS.	程久生	DATE	02/05/20	Page:1 of 3 3rd angle projection	BCM9765
CHEC.		DATE			Microphone
APPR.		DATE			DRG NO BS/TEM01.001A
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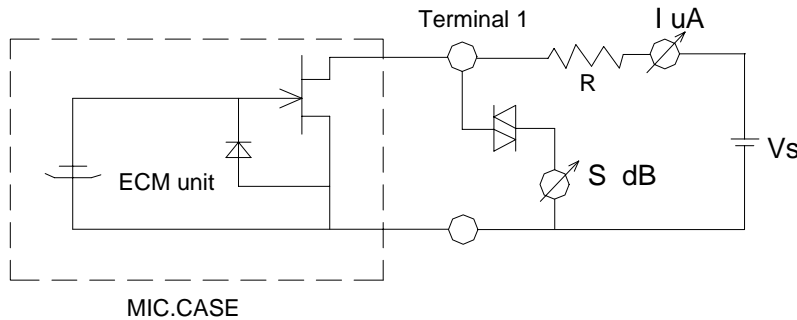
## 1.3 Mechanical Characteristics


Dimension	∅ 9.7X6.5(mm)(See appearance.)		
Weight	Less than 1g		
Soldering Heat Shock	To be no interference in operation after soldering heat shock. temperature 260° C ± 5° C for 5± 1 seconds.		
Terminal Mechanical Strength	To be no interference in operation after pulling the terminal with 1kg strength for 1 minutes		
Absolute Maximum Ratings	Operating Voltage	Vs (V)	10
	Storage Temperature Range	Tstg(° C)	-20~+70

## 2.Appearance



## Specified Circuit:



DIS.	程久生	DATE	02/05/20	Page:2 of 3 3rd angle projection	BCM9765
CHEC.		DATE			Microphone
APPR.		DATE			DRG NO BS/TEM01.001A
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### 3. Reliability Test

Collision Test	After collided with the acceleration $100 \pm 10m/s$ ,at the vertical & horizontal directions for $1000 \pm 10$ times at the state of packing .Change of sensitivity within $\pm 3dB$ from initial.
Vibration Test	Vibration with 10Hz to 55Hz for 3 minutes each.full amplitude 2mm. for 30minutes at each of three axes. Change of sensitivity within $\pm 3dB$ from initial.
Drop Test	After drop from 0.8mm height to concrete floor. each one time for 5 surfaces at the state of packing. Change of sensitivity within $\pm 3dB$ from initial.
Humidity Test	After exposure at $60^{\circ}C \pm 2^{\circ}C$ and 90%-95% relative humidity or 200 hours. Change of sensitivity within $\pm 3dB$ from initial.(Measuring should be done after 2hours exposed to $20^{\circ}C \pm 2^{\circ}C$ )
Temperature Test	1),After exposure at $70^{\circ}C \pm 2^{\circ}C$ for 200 hours.Change of sensitivity within $\pm 3dB$ from initial. (Measuring should be done after 2 hours exposed to $20^{\circ}C \pm 2^{\circ}C$ .)  2),After exposure at $-25^{\circ}C \pm 2^{\circ}C$ for 200 hours. Change of sensitivity within $\pm 3dB$ from initial . (Measuring should be done after 2 hours exposed to $20^{\circ}C \pm 2^{\circ}C$ .)
Teperature Cycle Test	After exposure at $-55^{\circ}C \pm 2^{\circ}C$ for 30 minutes, at $20^{\circ}C \pm 2^{\circ}C$ for 10 minutes. at $85^{\circ}C \pm 2^{\circ}C$ for 30 minutes. at $20^{\circ}C \pm 2^{\circ}C$ for 10 minutes, with 5 cycles. Change of sensitivity within $\pm 3dB$ from initial.  (Measuring should be done after 2 hours exposed to $20^{\circ}C \pm 2^{\circ}C$ .)

DIS.	程久生	DATE	02/05/20	Page:3 of 3	BCM9765
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