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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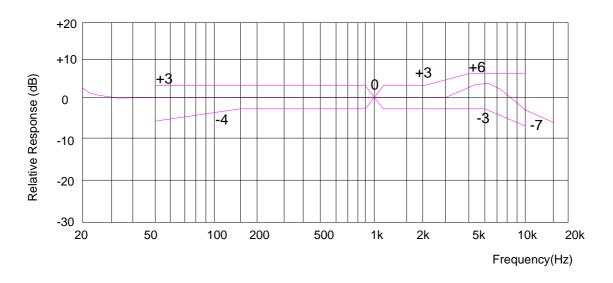
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Model:BCM9765

- 1.Technical Terms
- 1.1 Electrical Characteristics Test Condition(Vs=6V RL=1K Ω Ta=20 $^{\circ}$ C R.H=55%)

Item	Symbol	Condition	Minimum	Standard	Maximum	Unit
Sensitivity	S	f=1kHz,Pin=1 μ 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,Pin=1u bar (A Curve)	40			dB
Decreasing	ΔS	f=1KHz,Vs=4.5-1.5V			-3	dB

1.2 Typical Frequency Response



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TianAn Industry Park 4/F, Site B ChangZhou New District

DRG NO BS/TEM01.001A

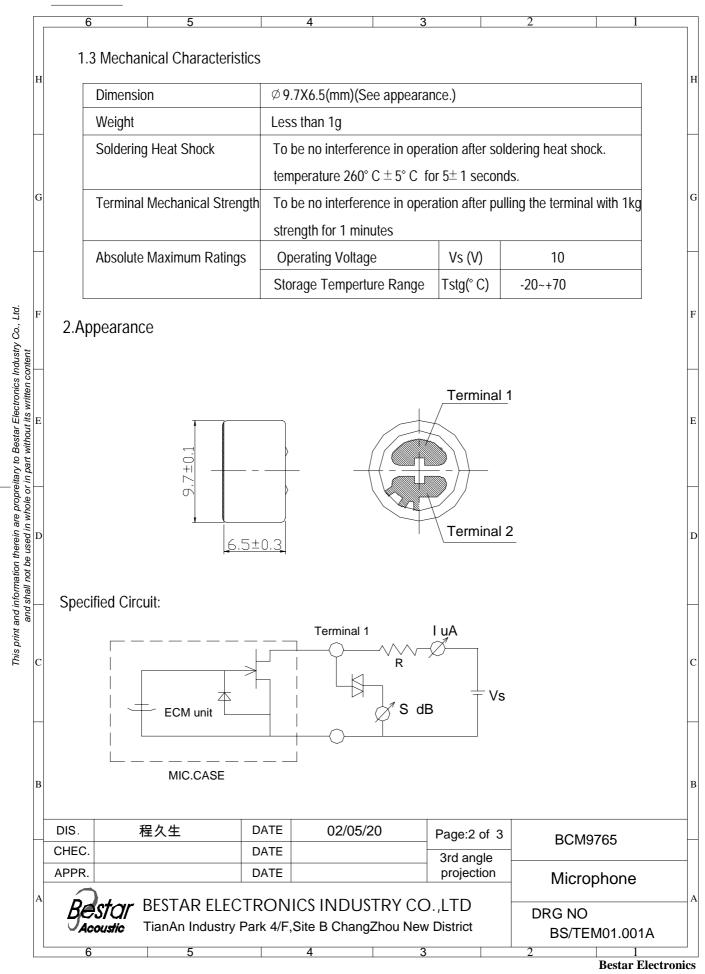
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	3.Reliabilit	y Test						
I	Collision	n Test	After collided with the acceleration 100 \pm 10m/s ,at the vertical & horizontal directions for 1000 \pm 10 times at the state of packing .Change of sensitivity within \pm 3dB from initial.					
ì	Vibratio	n Test 3	Vibration with 10Hz to 55Hz for 3 minutes each.full amplitude 2mm. for 30minutes at each of three axies. Change of sensitivity within \pm 3dB from initial.					
	Drop 1	est	After droop from 0.8mm height to concrete floor, each one time for surfaces at the state of packing. Change of sensitivity within \pm 3dB from initial.					
	Humidit	ty Test	After exposure at $60^\circ\mathbb{C}^\pm 2^\circ\mathbb{C}$ and 90%-95% relative humidity or 200 hours. Change of sensitivity within \pm 3dB from initial.(Measuring should be done after 2hours exposed to $20^\circ\mathbb{C}^\pm 2^\circ\mathbb{C}$)					
	Temperat	ure Test	1),After exposure at 70° ℂ±2° ℂ for 200 hours.Change of sensitivity within ±3dB from initial. (Measuring should be done after 2 hours exposed to 20° ℂ±2° ℂ.) 2),After exposure at -25° ℂ±2° ℂ for 200 hours. Change of sensitivity within ±3dB from initial. (Measuring should be done after 2 hours exposed to 20° ℂ±2° ℂ.)					
	Teperature	Cycle Test	After exposure at -55° C \pm 2° C for 30 minutes, at 20° C \pm 2° C for 10 minutes. at 85° C \pm 2° C for 30 minutes. at 20° C \pm 2° 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° C \pm 2° C.)					
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F		程久生	DATE	02/05/20	Page:3 of 3	BCM9765		
	APPR.		DATE		3rd angle projection	Microphone		
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