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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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This specification applies to the electret condenser microphone outlined within this document.

Model Number:

- mber: MB6013ASC-1
- I. Electrical Characteristics Test Condition (Vs= 2.0 V, RL= 2.2 k ohm, Ta=20°C, RH=65%)

ITEM	SYMBOL	TEST CONDITION	MINIMUM	STANDARD	MAXIMUM	UNITS
Sensitivity	S	f=1kHz, Pin=1Pa	-45	-42	-39	dB 0dB=1V/Pa
Impedance	Zout	f=1kHz, Pin=1Pa			2.2	kΩ
Directivity			OMNI-DIRECTIONAL		NAL	
Current Consumption	I				0.5	mA
S/N Ratio	S/N (A)	S/N (A) f=1kHz, Pin=1Pa A Curve				dB
Sensitivity Reduction	∆S	f=1kHz, Pin=1Pa Vs= 2.0 - 1.5			-3	dB
Frequency Range	2.0 - 1.0		100-10,000			Hz
Frequency Response	+20 +20 +10 0 0 -10 -20 -30 -30 20	+3 -3 50 100 200 500 Frequ	0 1000 2000 lency (Hz)	+10 -10 0 5000 1000		
Schematic Diagram of Circuit		impedance rerter Capacitor 10pF 33p	Term.1	C O Output RL O +Vs O Ground		

II. Mechanical Characteristics

Dimensions	Ø 6 x 1	1.3 See Drawing	g in Section IV			
Weight	Less than 0.2g					
Solderering Heat Shock	To be no interferance in operation after soldering temperature exposure at 260°C +/-5°C for 2 +/- 0.5 seconds.					
Terminal Mechanical Strength	To be no interference in operation after pulling terminal 0.5kg force for 1 minute					
Absolute Maximum Ratings	Operating Voltage	Storage Temperatur Range	e Operation Temperature Range			
	Vs (V)	Tstg °C	Tope °C			
	10	-25°C to +70°C	-25°C to +60°C			



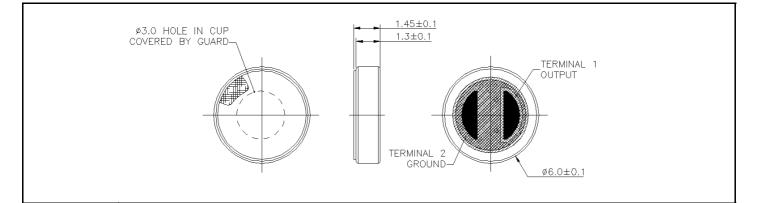
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Issued Date: 2004/4/21 Version: A



III. Reliability Tests	No	te: After any of the following tests performed, the sensitivity of the microphone unit shall not deviate more than ±3dB from its initial value. The microphone shall maintain its initial operation and appearance. Measurements for tests with thermal requirements are to be done after 2hrs of condistioning at 20°C.	
Vibration Test	The microphone to have no interferance in operation after vibrations, 10Hz to 55Hz for 1minute full amplitude 1.52mm, for 2 hours at three axises.		
Drop Test	The microphone unit must operate when dropped three times once on each axis from a height of 1.5m onto a metal plate.		
Temperature Test	High	The microphone unit must operate within its sensitivity specifications after subjected to the following conditions: +70°C for 240 hrs, and exposed to room temperature for 2 hrs.1	
	Low	The microphone unit must operate within its sensitivity specifications after subjected to the following conditions: -25°C for 240 hrs, and exposed to room temperature for 2 hrs.	
Humidity Test	+60°C at 95%RH for 200 hrs		
Temperature Cycle Test	After exposure at -25°C for 30 minutes, at +20°C for 10 minutes, at +60°C for 30 minutes, at +20°C for 10 minutes, 5 cycles. (The measurements to be done after 2hrs of conditioning at +20°C)		

IV. Dimensional Drawing



V. Other

Better Shielded, RF noise resistant type.

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