

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

Model Number:

ber: MB6052ASC-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			
Current Consumption	I				0.5	mA
S/N Ratio	S/N (A)	f=1kHz, Pin=1Pa A Curve	60			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						
		200 500 1k 2 3 4 5 6 FREQUENCY (Hz)	3 7 89 10k			
Schematic Diagram of Circuit		impedance verter Capacitor 10pF 33p	Term.1	C Output RL O+Vs O Ground		

II. Mechanical Characteristics

Dimensions	Ø 6 x 5	5.2 Se	ee Drawing i	n Section IV			
Weight	Less than 0.5g						
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	The soldering time must be less than 2 seconds each pad, and soldering pull must be larger than 0.5Kg each pad.						
Absolute Maximum Ratings	Operating Voltage		emperature ange	Operation Temperature Range			
	Vs (V)	Ts	tg °C	Tope °C			
	10	-25°C	to +70°C	-10°C to +60°C			



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Version: X2

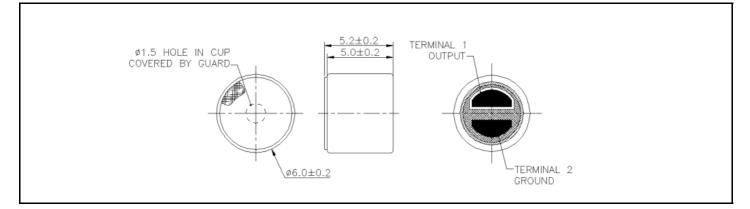
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III. Reliability Tests	Note: After any of the following tests performed, the sensitivity of the microphone unit shall not deviate more than ±3dB from its initial value. The microphone shall maintain its initial operation and appearance. Measurements 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 1 minute 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 1m onto a metal plate.		
Temperature Test	HighThe 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.		
	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	+40°C at	95%RH for 240 hrs
		osure at -55°C for 30 minutes, at+20°C for 10 minutes, at +85°C for 30 minutes, at 10 minutes, 5 cycles. (The measurement to be done after 2 hrs of conditioning at

IV. Dimensional Drawing



V. Other

Better Shielded, RF noise resistant type.

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