

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

Model Number:

mber: MB6022USC-3

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	-50	-47	-44	dB 0dB=1V/Pa
Impedance	Zout	f=1kHz, Pin=1Pa			2.2	kΩ
Directivity	1		UNIIDIRECTIONAL			
Current Consumption					0.5	mA
S/N Ratio	S/N (A)	f=1kHz, Pin=1Pa A Curve	50			dB
Sensitivity Reduction	∆s	f=1kHz, Pin=1Pa Vs= 2.0 - 1.5			-3	dB
Frequency Range	2.0 - 1.5		100-10,000			Hz
	-40 -50 -60 -70 -70 -80	2 3 4 5 6 7 89 2 3 FREQUENCY (Hz)	4 5 6 7 89 10k			
Schematic Diagram of Circuit		T impedance verter Capacitor 10pF 33 Hield Case	Term.1	C O Output		

## II. Mechanical Characteristics

Dimensions	Ø 6 x 2	2.2 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	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	Storage Temperatur Range	e Operation Temperature Range			
	Vs (V)	Tstg °C	Tope °C			
	10	-40°C to +80°C	-20°C to +70°C			



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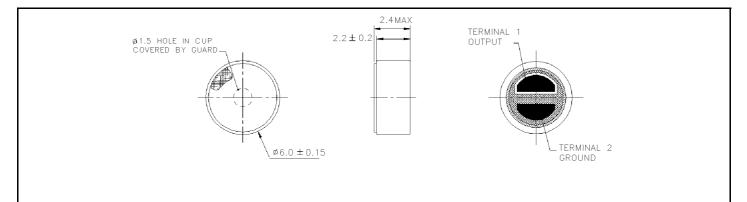
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III. Reliability Tests	<b>Note:</b> After any of the following tests performed, the sensitivity of the microphone unit shall not deviate more than ±3dB from its initial value. The microphone shall maintain its initial operation and appearance. Measurements 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: +80°C for 72 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: -40°C for 72 hrs, and exposed to room temperature for 2 hrs.	
Humidity Test	+40°C at 95%RH for 240 hrs	

After exposure at -20°C for 60 minutes, at+25°C for 60 minutes, at +70°C for 60 minutes, at +25°C for 60 minutes, 10 cycles. (The measurement to be done after 6 hrs of conditioning at +20°C.)

## IV. Dimensional Drawing



## V. Other

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