

PRODUCT SPECIFICATION

Doc: MB6015ASC-1

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

Model Number: MB6015ASC-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				0.4	mA
S/N Ratio	S/N (A)	f=1kHz, Pin=1Pa A Curve	60			dB
Sensitivity Reduction	ΔS	f=1kHz, Pin=1Pa Vs= 2.0 - 1.5			-3	dB
Frequency Range				100-10,000		Hz
	RELATIVE SENSITIVITY (dB) -20 -30 100	2 3 4 5 6789 2 3 1k FREQUENCY (Hz)	4 5 6 7 8 9			
Schematic Diagram of Circuit	ECM	Capacitor 10pF 33	Term.1	C Output		

II. Mechanical Characteristics

Dimensions	Ø 6 x 1	.5	See Drawing in	n Section IV	
Weight	Less than 0.2g				
Solderering Heat Shock	To be no interferance in operation after soldering temperature exposure at 330°C +/-10°C for below 2 seconds.				
Terminal Mechanical Strength	To be no interference in operation after pulling terminal 0.5kg force for 1 minute				
Absolute Maximum Ratings	Operating Voltage		Temperature Range	Operation Temperature Range	
	Vs (V)	Т	stg °C	Tope °C	
	10	-40°C	c to +85°C	-25°C to +60°C	



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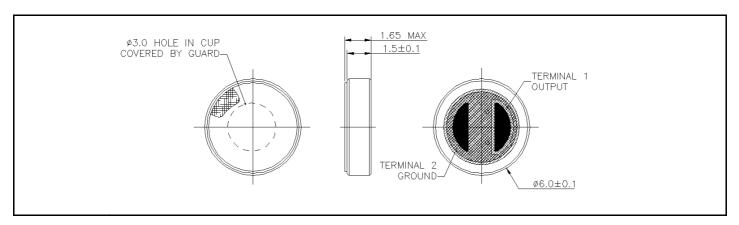
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III. Reliability Tests

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 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		The microphone unit must operate within its sensitivity specifications after subjected to the following conditions: +85°C for 240 hrs, and exposed to room temperature for 2 hrs.	
		The microphone unit must operate within its sensitivity specifications after subjected to the following conditions: -40°C for 240 hrs, and exposed to room temperature for 2 hrs.	
Humidity Test	+60°C at 95%RH for 240 hrs		
Temperature Cycle Test	After exposure at -40°C for 30 minutes, at +20°C for 10 minutes, at +85°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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