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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









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			OM	INI-DIRECTION	VAL	
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 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	Storage Temperature Range	Operation Temperature Range		
	Vs (V)	Tstg °C	Tope °C		
	10	-40°C to +85°C	-25°C to +60°C		



Knowles Acoustics, 1151 MAPLEWOOD DRIVE, ITASCA, IL 60143 USA Americas [USA] +1-630-250-5930 Asia [Taiwan] +886-2-8919-1799 Europe [England] +441444 87 2810 Japan [Tokyo] +81-3-3439-1151

www.knowlesacoustics.com

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PRODUCT SPECIFICATION

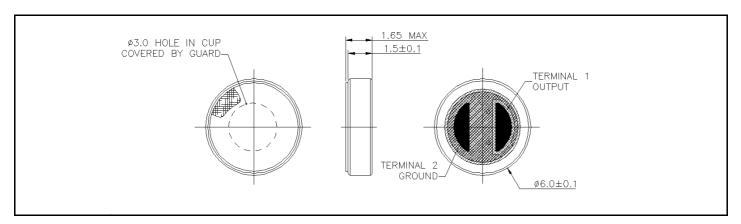
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III. Reliability Tests

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	High	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.	
	Low	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

Rottor	Shialdad	RΕ	noisa	resistant type.
Dettel	ornelucu,	171	110136	resistant type.

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