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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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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PRODUCT SPECIFICATION

Doc: MB6022APC-0

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

Model Number: MB6022APC-0

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	-42	-40	-38	dB 0dB=1V/Pa
Impedance	Zout	f=1kHz, Pin=1Pa			2.2	kΩ
Directivity			OM	OMNI-DIRECTION		
Current Consumption	I				0.5	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		2.0		100-10,000		Hz
	Relative Response (dB) -10 -20 -30 20	+3 -3 -3 -50 100 200 50 Freq	0 1000 2000 uency (Hz)	0 5000 1000	00 20000	
Schematic Diagram of Circuit	ECM Lunit	Capacitor 10pF 33	Term.1	C Output		

II. Mechanical Characteristics

Dimensions	Ø 6 x 2	2.2	See Drawing in	n Section IV		
Weight	Less than 0.2g					
Solderering Heat Shock	Not Applicable					
Terminal Mechanical Strength	Not Applicable					
Absolute Maximum Ratings	Operating Voltage		Temperature Range	Operation Temperature Range		
	Vs (V)	Т	「stg °C	Tope °C		
	10	-40°0	C to +85°C	-25°C to +70°C		



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PRODUCT SPECIFICATION

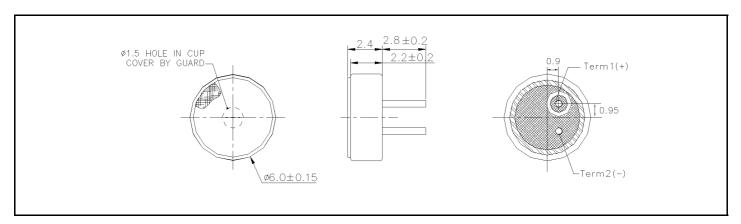
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III. Reliability Tests

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 1m onto a metal plate.		
Temperature Test	High The microphone unit must operate within its sensitivity specifications after subjected to the following conditions: +80°C for 96 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 96 hrs, and exposed to room temperature for 2 hrs.		
Humidity Test	+70°C at 90%RH for 120 hrs		
Temperature Cycle Test	After exposure at -40°C for 45 minutes, at+20°C for 10 minutes, at +85°C for 45 minutes, at +20°C for 10 minutes, 27 cycles. (The measurement to be done after 2 hrs of conditioning at +20°C.)		

IV. Dimensional Drawing



V. Other

Better Shielded, RF noise resistant type.

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