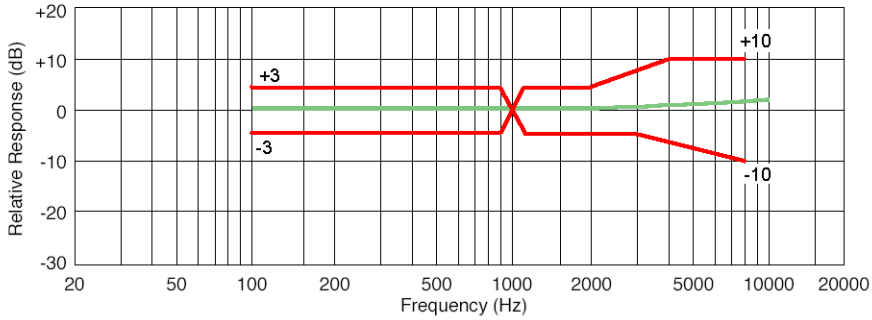
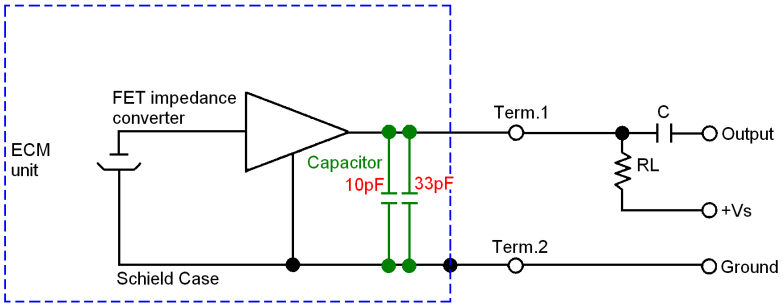
This specification applies to the electret condenser microphone outlined within this document.

Model Number: **MB6013ABC-2**

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	-46	-44	-42	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	Δ S	f=1kHz, Pin=1Pa Vs= 2.0 - 1.5			-3	dB
Frequency Range			100-10,000			Hz
Frequency Response						
Schematic Diagram of Circuit						

II. Mechanical Characteristics

Dimensions	∅ 6 x 1.3	See Drawing in Section IV
Weight	Less than 0.2 g	
Solderering Heat Shock	Not Applicable	
Terminal Mechanical Strength	Not Applicable	

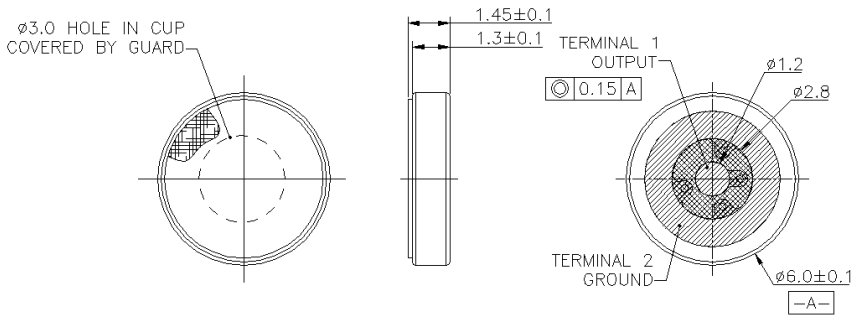
Absolute Maximum Ratings	Operating Voltage	Storage Temperature Range	Operation Temperature Range
	Vs (V)	Tstg °C	Tope °C
	1.5-10.0	-40°C to +85°C	-30°C to +70°C

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 45 minutes, at +85°C for 45 minutes, 27 cycles. (The measurements to be done after 2hrs of conditioning at +20°C)	

IV. Dimensional Drawing



V. Other

Better Shielded, RF noise resistant type.