

ABSTRACT OF THE DISCLOSURE

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SMD TYPE BIASED CONDENSER MICROPHONE

The present invention relates to an SMD type biased condenser microphone having two terminals for a surface mounting process. The SMD type biased condenser microphone includes a grounding terminal for connecting with an external circuit, a set
10 of diaphragm/backplate one end of which is connected to the grounding terminal, for varying a capacity according to an intensity of sound pressure and converting sound into an electric signal, a DC-DC converter for providing a bias voltage so as to form an electrostatic field at one side of the set of diaphragm/backplate, a buffer IC for amplifying the electric signal from the set of diaphragm/backplate, and a decoupling
15 capacitor for preventing the bias voltage output from the DC-DC converter from being directly applied to the buffer IC and transferring the electric signal from the set of diaphragm/backplate to the buffer IC. Therefore, the present invention can improve compatibility with a conventional ECM, and solve the directional problem of the circular condenser microphone in the surface mounting process, and also form the
20 electrostatic field by applying a voltage from the outside so as to be capable of maintaining a constant electric field even after reflow work thereby preventing loss of sensitivity.

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(Please note that Figure 2 should accompany the abstract when published)