

ABSTRACT

Parallele Piped Condenser Microphone

There is provided a surface mount parallelepiped condenser microphone. In the surface mount parallelepiped condenser microphone, a case has a rectangular box shape with an opening, a backplate has a circular shape with a sound hole, a spacer has thin ring shape, an insulation ring has a hollow cylindrical shape with top and bottom openings, a diaphragm faces the backplate with disposing the spacer therebetween, and a PCB has a rectangular shape with a sound hole at a centre portion, the PCB being electrically connected with the diaphragm through a conductive ring, wherein a metal ring, the backplate, the spacer, the insulation ring, the diaphragm, the conductive ring, and the PCB are sequentially disposed in the case, and the case is curled at the opening. Therefore, the direction of the surface mount condenser microphone can be easily detected when mounting on a main PCB.

Fig.3