

ABSTRACT:

To provide a thin metal base circuit board which can be not only installed on a flat portion but also closely attached to a side or bottom surface of a case or to a stepped or curved portion and which is excellent in heat dissipation performance, electrical insulating performance and flexibility; a process for its production; and a hybrid integrated circuit, an LED module and a bright, ultra-long-life LED light source employing it.

A metal base circuit board having insulating layers and conductive circuits or metal foils alternately laminated, characterized in that the thickness of each conductive circuit or metal foil is from 5 μm to 450 μm , each insulating layer is made of a cured product of a resin composition comprising an inorganic filler and a thermosetting resin, and the thickness of each insulating layer is from 9 μm to 300 μm ; and a hybrid circuit board employing it. The metal base circuit board wherein a coverlay is provided, and a layer having a magnetic loss or a layer having a dielectric loss is laminated on the surface of the coverlay. A LED light source unit having at least one light-emitting diode (LED) mounted on the conductive circuit.