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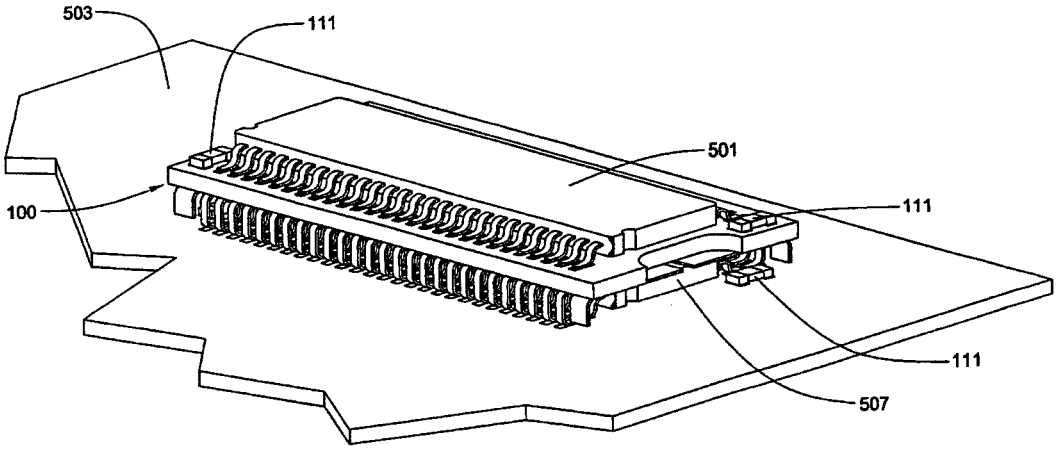
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(54) Title: ELECTRONIC MODULE HAVING A THREE DIMENSIONAL ARRAY OF CARRIER-MOUNTED INTEGRATED CIRCUIT PACKAGES



(57) Abstract: A package carrier (100) for increasing the circuit density on printed circuit boards (503). The package carrier (100) mounts on a printed circuit board (503) on top of a first integrated circuit package (507) that is also mounted on the printed circuit board (503). The carrier (100) has an upper major surface (102U) having a pad array on which a second integrated circuit package (501) is mountable. The carrier (100) has a plurality of leads by means of which the carrier (100) is surface mounted to the printed circuit board (503). Each carrier lead is also electrically connected to a single pad of the pad array on the upper surface (102U). The integrated circuit package (507) beneath the carrier (100) shares all or most printed circuit board (503) connections in common with the carrier (100) and consequently the integrated ciurcut package (501) mounted upon the carrier (100). The carrier (100) also includes heat sink or heat disipation structures.

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