

Title (en)

CONTROLLED COMPLIANCE FINE PITCH INTERCONNECT

Title (de)

FEINRASTERVERBINDUNG MIT KONTROLLIRTER NACHGIEBIGKEIT

Title (fr)

INTERCONNEXION A PAS FIN ET A CONFORMITE REGLEE

Publication

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Application

EP 00955283 A 20000731

Priority

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Abstract (en)

[origin: WO0109980A2] A method and apparatus for achieving a very fine pitch interconnect between a flexible circuit member and another circuit member with extremely co-planar electrical contacts that have a large range of compliance. An electrical interconnect assembly that can be used as a die-level test probe, a wafer probe, and a printed circuit probe is also disclosed. The second circuit member can be a printed circuit board, another flexible circuit, a bare-die device, an integrated circuit device, an organic or inorganic substrate, a rigid circuit and virtually any other type of electrical component. A plurality of electrical contacts are arranged in a housing. The electrical contacts may be arranged randomly or in a one or two-dimensional array. The housing acts as a receptacle to individually locate and generally align the electrical contacts, while preventing adjacent contacts from touching. The first ends of the electrical contacts are electrically coupled to a flexible circuit member. The electrical contacts are free to move along a central axis within the housing. The second ends of the electrical contacts are free to electrically couple with one or more second circuit members without the use of solder.

IPC 1-7

H01L 21/66; G01R 1/067; G01R 1/073

IPC 8 full level

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