

ABSTRACT OF THE DISCLOSURE

ELECTRICAL CONNECTOR WITH
LOW-INDUCTANCE TERMINAL STRUCTURE

5 A low-inductance electrical connector is provided for connecting an electrical component to a circuit board. In an embodiment, the connector includes a housing having a horizontal base (104), a plurality of walls (106) extending from the base (104) and defining a longitudinal slot (108) for receiving an edge of the electrical component, the walls (106) further defining a plurality of terminal cavities (110) adjacent to the slot (108). The connector further includes a plurality of conductive
10 terminals (112, 212), each of the conductive terminals (112, 212) having a tail portion (116) extending from the base (104) and a resilient contact portion (114, 214) mounted in a respective one of the terminal cavities (110). According to an aspect of the invention, the contact portion (114, 214) is configured to have minimal total length, thereby decreasing the signal path from the electrical component, through the
15 respective terminal, to the circuit board. As a result, the connector demonstrates low inductive reactance and advantageously may be used in high frequency applications. In an exemplary embodiment, the contact portion (114, 214) has a generally planar body which, in a normal condition, extends generally vertically within the terminal cavity. Also, the contact portion (114, 214) has a bump (122, 222) formed in the body
20 that projects inwardly into the slot (108).

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