

ABSTRACT OF THE DISCLOSURE

CONTACT STRUCTURE HAVING SILICON FINGER CONTACTORS AND TOTAL STACK-UP STRUCTURE USING SAME

5 A contact structure for establishing electrical
communication with contact targets with improved contact
performance including frequency bandwidth, contact pitch,
reliability and cost. The contact structure is formed of a
plurality of finger like contactors mounted on a contact
10 substrate. Each of the contactors includes a silicon base
having an inclined support portion, an insulation layer
formed on the silicon base and projected from the inclined
support, and a conductive layer made of conductive material
formed on the insulation layer so that a beam portion is
15 created by the insulation layer and the conductive layer,
wherein the beam portion exhibits a spring force in a
transversal direction of the beam portion to establish a
contact force when the tip of the beam portion pressed
against a contact target. An adhesive is applied for bonding
the contactors to the surface of the contact substrate.

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