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(54) **Electronic network components and component networks utilizing biocompatible conductive adhesives for direct body fluid exposure**

(57) An implantable passive or active electronic network component or component network is provided which is suitable for prolonged direct body fluid exposure and is attachable to a conductive surface, circuit trace, lead or electrode. The electronic network component or component network includes (1) a non-conductive body of biocompatible and non-migratable material, (2) a conductive termination surface of biocompatible and non-migratable material, associated with the body, and (3) a connection material of biocompatible and non-migratable material, for conductively coupling the termination surface to the conductive surface, circuit trace, lead or electrode. The electronic network component may include a capacitor, a resistor, an inductor, a diode, a transistor, an electronic switch, a MEMs device, or a microchip. A biocompatible and non-migratable adhesive is utilized to conductively couple components of the individual components of the electronic network, such as the conductive

surface, circuit trace, lead or electrode.

