Heraeus



Material Systems for Automotive Electronics

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Heraeus is a leading supplier of contact springs, components, and material systems to the automotive and electronics industry. Our innovative products are developed in close cooperation with our customers to ensure the optimal performance in the final application. The function of an electronic module or circuit depends not just on the performance of each individual material, but how all of the materials work together in the final application. Heraeus supports OEMs in the automotive industry to select the right combination of materials to build up reliable circuits and modules. You will find our materials and systems in various applications, such as power electronic modules, control devices, ABS, and airbags. With Heraeus knowhow and expertise in various technologies you are able to build an entire system from a single source. We would like to describe two applications in more detail:

Fuel Senders

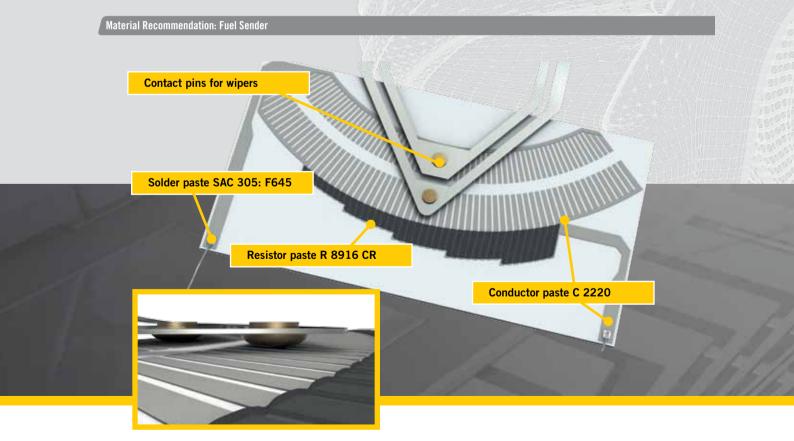
The fuel level sender must work in aggressive fuels.

Therefore it is essential the materials used exhibit superior resistance and reliability.

Fuel Senders – Heraeus Materials Inside

- Conductor and resistor pastes:
 Business Unit Circuits & Components
- Solder pastes:Business Unit Assembly Materials
- Contact pins for wipers:

 Electrical Contacts Technology



Transmission Controller

Different types of materials and functions are combined on this circuit board. All the materials and components must match together well to ensure a high and long lasting performance of the entire circuit.

Product Overview

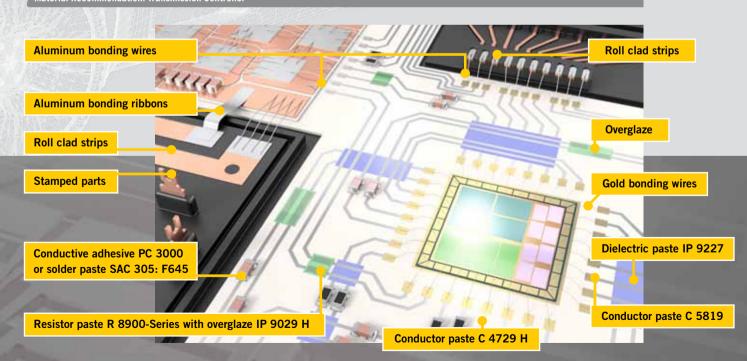
- Thick Film conductor-, resistorand dielectric pastes as well as overglazes
- Solder pastes and adhesives
- Bonding wires
- Bonding ribbons
- Electrical contacts
- Stamped parts
- Roll clad strips

Transmission Controller – Heraeus Materials Inside

- Conductor, resistor, dielectric and component pastes, overglaze:
 Business Unit Circuits & Components
- Solder pastes and adhesives:

 Business Unit Assembly Materials
- Bonding wires:
 Business Unit Bonding Wires
- Roll clad strips and stamped parts: Packaging Materials Division

Material Recommendation: Transmission Controller



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