

Mixed-sensor Platform

KBS4

KBS4 is a double-sided sensor platform that consists of platinum interdigitated electrodes on the face side of the ceramic substrate and a platinum heating element on the reverse side of the ceramic substrate. By uniformly covering the surface of the platform with the heating element, a homogeneous temperature field is ensured on the surface of the platform. The platform structures are made up of a thin platinum layer. The supply wires are contacted to the platform on the face side on opposite edges. The conductive contact with the heating element on the reverse side of the platform is provided by the platinum through holes in the ceramic substrate. The heating element is protected by a covering insulation layer. Sensitive layers can be deposited on the interdigital structure by various methods (screen printing, spin-coating, drop-coating, sputtering, ...).

Application: Typical areas of application for the sensor platform are any type of gas sensors and physical sensors.

Dimensions: 2,2 x 2,2 x 0,38 mm

Connection: Ag wire \varnothing 0,1 mm
Pt wire \varnothing 0,1 mm

Lead length: 10 ± 1 mm (Custom specification)

IDES: Line / Gap: 40 / 40 μ m

Temperature range: -200 °C to +350 °C

Heater: $15 \Omega \pm 1,5 \Omega$ at 0 °C

Long-term stability: Test 1000 hours at 200 °C

Advantages: Small size
Long-term stability
Short response time

