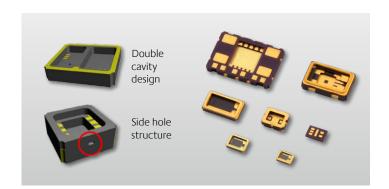


ELECTRONIC PACKAGES CERAMIC PACKAGES FOR GAS SENSOR APPLICATIONS

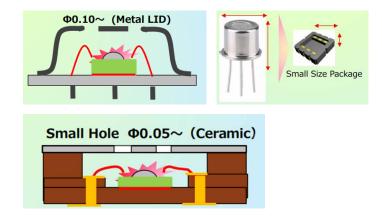


APPLICATIONS

- Automotive (Smog Emission Sensor, H₂ Leakage Sensor)
- Mobile Device (Alcohol/Gas Sensor)
- Gas Alarm for home use
- Air Cleaner (VOC, Dust sensor)

FEATURES (IN COMPARISON TO METAL PACKAGES)

- ▶ Down sizing (outer size, height)
- ▶ Reflow design
- ▶ Small hole design $(\phi 50\mu m)$ → dust resistance
- ▶ Improve corrosion → high humidity resistance



FEATURES (IN COMPARISON TO ORGANIC PACKAGES)

- Less outgassing
- ▶ High heat resistance (-45 °C +125 °C)
- ▶ Flame resisting material → safe for flammable gas
- ▶ Similar CTE to Silicon
- Water resistance
- ▶ Unique design available

SURFACE MOUNT TECHNOLOGY (SMD)

- ▶ Smaller and thinner package design
- ▶ Automatic reflow process by SMD
- Less corrosion, outgas material

