

## Ceramics materials:

### Zirconia ceramic fingerprint identification sheet

The combination of unique low cost processing technology and strict quality management lead high quality, low price and accordingly competitiveness of the product

Specifications:

Parameters	Value
Diameter	Φ52mm +/-0.05mm (or customized)
Thickness	0.04mm to 0.08mm
TTV	<= 0.35mm
Warp	<= 0.45mm
Ra	<= 30nm

### Alumina, alumina ceramic substrate

Benefits from the craftsmanship in lapping and polishing technology, the ceramic substrate products of ours are excellent in TTV, warp, surface roughness ( $Ra = 0.03\sim 0.05\mu m$ ), nonporousness, availability to both single and double faced process, and adaptable to the produce of small size, high precision and high rout density

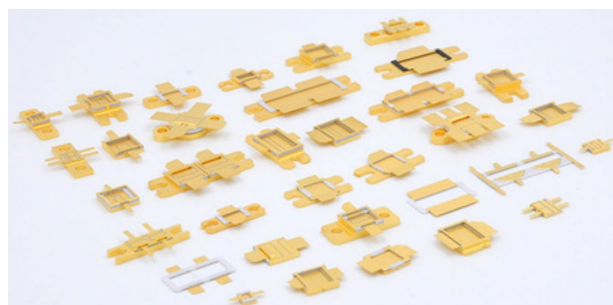
For request, pls contact us

### Zirconia ceramic phone rear cover

By using selected raw materials, exquisite processing technology and detailed production management, we can make the products unique and excellent, in both performance and appearance. We can provide various products meeting customers' requirements, from 2D, 2.5D flat mobile phone rear cover plate to 3D quadric, 3D pent surface and other shaped cover plate

Parameters	Value
Size	Customized
TTV	<= 0.008mm
Surface process	Mirror ( $Ra \leq 0.007\mu m$ )

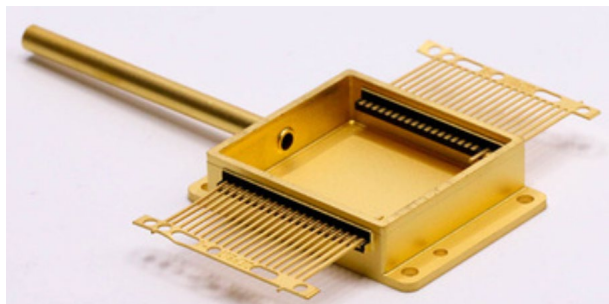
### Shell of wireless power device



The shell of wireless power device has such characteristics like impedance matching, low loss, etc., and it provides the power device with physical support, electrical path, thermal path and air tightness environment protection. It is used for the packaging of different kinds of wireless communication power devices and modules in such fields like digital mobile communication, point-to-point and multi-point communication,

wireless width access and other wireless network fields. Realize the batch application of new type metal heat dispersing material CPC, CMC, etc.

### Shell of uncooled infrared detector



The shell of infrared detector is used for the packaging of uncooled and cooled infrared focal plane detector. It is widely applied to such fields like infrared night vision, security and protection, fire protection, marine affairs application, monitoring and night vision observation, power monitoring, online monitoring of intelligent power grid, visual enhanced driving assistance system, railway, and so on.

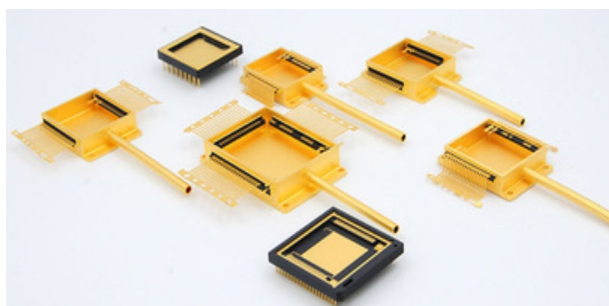
The uncooled infrared focal plane detector has two types of structure: metal wall-ceramic insulator structure and all-ceramic structure.

**Metal shell:** It is composed of metal chassis, metal wall, ceramic component and copper exhaust pipe. The copper exhaust pipe, which is integrated with shell, is featured by multi-lead and high reliability. Metal shells mainly have butterfly structure.

**Ceramic shell:** The structures are mainly LCC and PGA type, and oxygen-free copper exhaust pipe is optional. It is featured by multi-pin, no-TEC packaging and low cost.

**Shell of cooled infrared detector:** It is composed of circular ceramic component and metal ring; it can connect with Dewar cooler and resist  $-200^{\circ}\text{C}$  low temperature, and it has high reliability.

### Shell of infrared detector



The shell of infrared detector is used for the packaging of uncooled and cooled infrared focal plane detector. It is widely applied to such fields like infrared night vision, security and protection, fire protection, marine affairs application, monitoring and night vision observation, power monitoring, online monitoring of intelligent power grid, visual enhanced driving assistance system, railway, and so on.

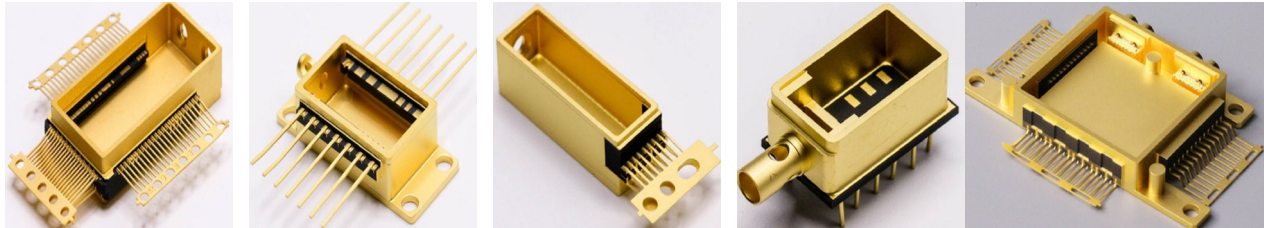
The uncooled infrared focal plane detector has two types of structure: metal wall-ceramic insulator structure and all-ceramic structure.

**Metal shell:** It is composed of metal chassis, metal wall, ceramic component and copper exhaust pipe. The copper exhaust pipe, which is integrated with shell, is featured by multi-lead and high reliability. Metal shells mainly have butterfly structure.

**Ceramic shell:** The structures are mainly LCC and PGA type, and oxygen-free copper exhaust pipe is optional. It is featured by multi-pin, no-TEC packaging and low cost.

**Shell of cooled infrared detector:** It is composed of circular ceramic component and metal ring; it can connect with Dewar cooler and resist -200°C low temperature, and it has high reliability.

### Shell of integrated coherent receiver / Butterfly shell / TOSA & ROSA shell / MiniPin shell / 100G ICR



The shell of optical communication device has metal wall-ceramic insulator structure, and it can provide device with electrical signal transmission channel and optical coupling interface, as well as mechanical support and air tightness protection, solving the problem in mutual connection of chip and external circuit; 50 Ohms characteristic impedance transfer connector can be installed, and it is applied to 2.5, 10, 25Gbps, 40Gbps, 100Gbps transmission rate. The product includes series of 14-lead butterfly shell, shell of 10-100Gbps transmission TOSA, shell of 10Gbps/100Gbps transmission receiver, shell of Mini-Pin structure, shell of Mini-Dil structure, shell of large-power laser, and it is used for the packaging of various photoelectric transmitting and receiving device, optical switch and large-power laser. It is used for broadband access, transmission network, data communication and CATV