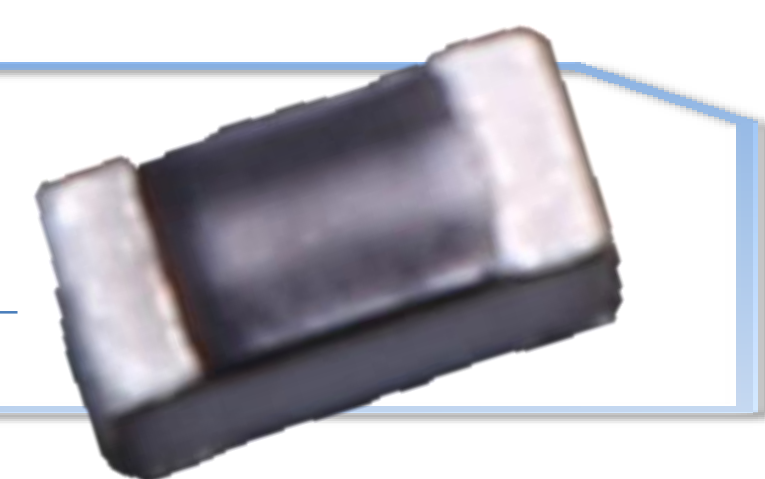


Thick film chip Thermistor for Power module

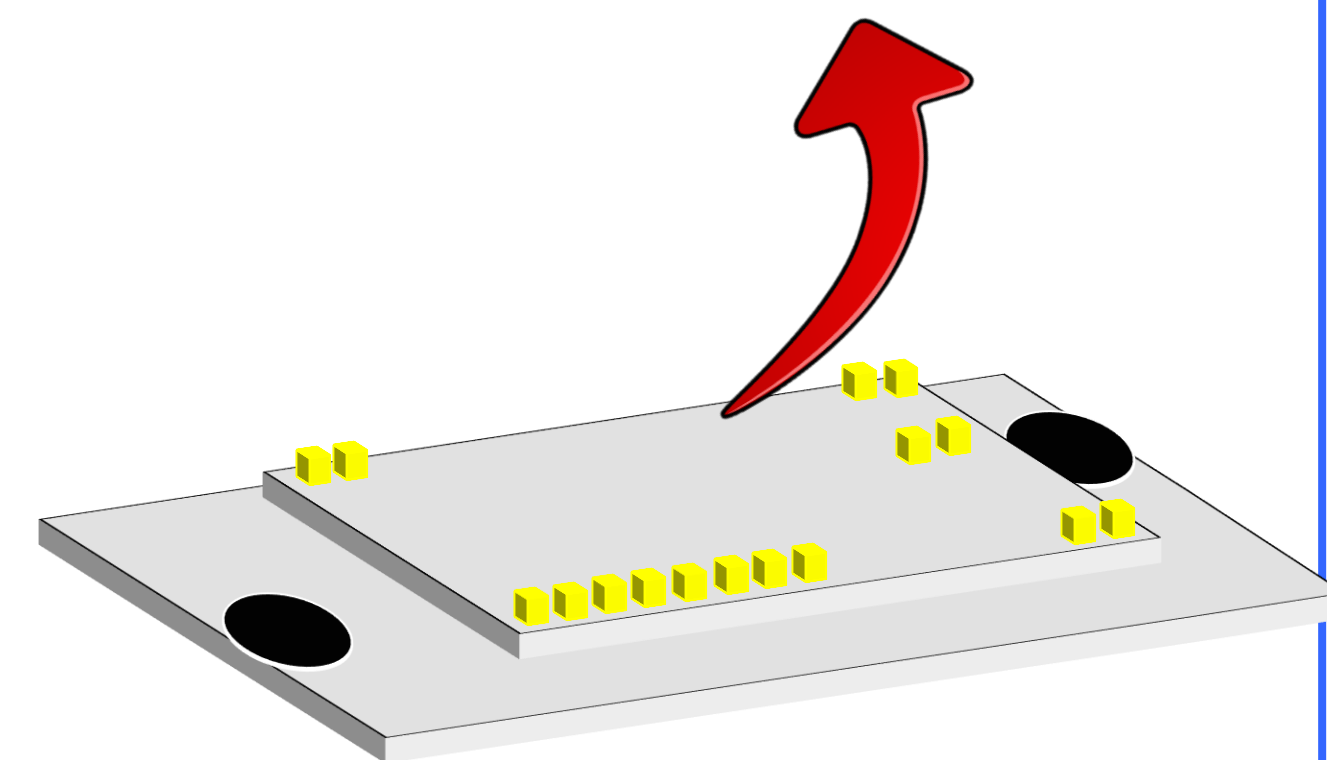
IATF16949 certified

Thick Film Structure with Original material design and mixing process.

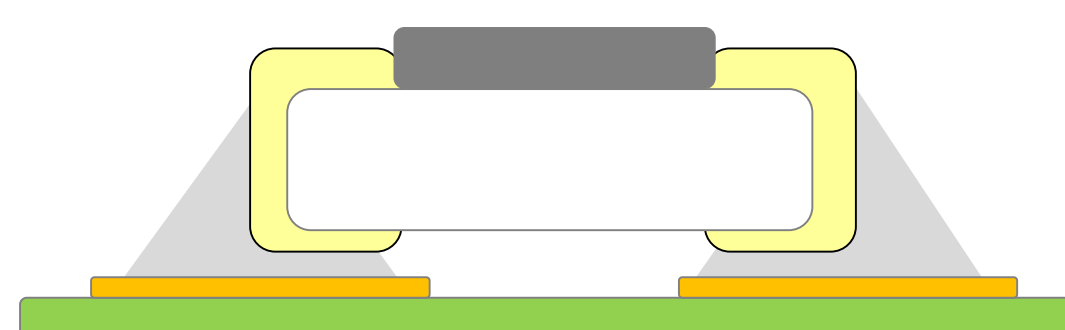
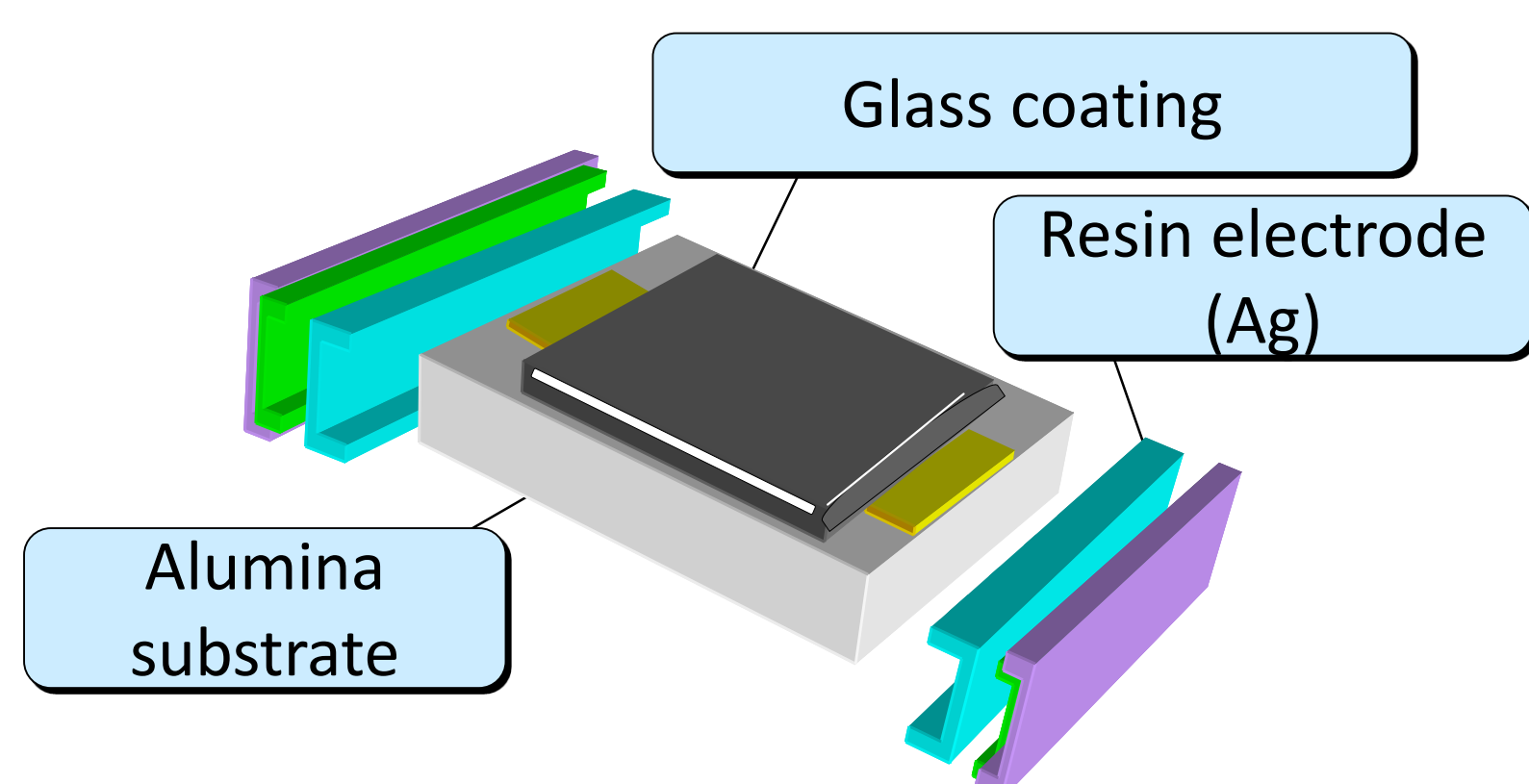


Features

- High mechanical strength by Alumina base & Glass coating
- **Keeping reliability in higher tem. More than 150°C**
- **Superior thermal responsiveness** due to small cubic volume & heat capacity
- **Strong at resin sealing** by glass coating
- **Free combination choice between R/V and B/V** (Realizing a requested temp. curve)
- **Superior Resistance to thermal shock** compared to multi-layer structure.
- Lead free

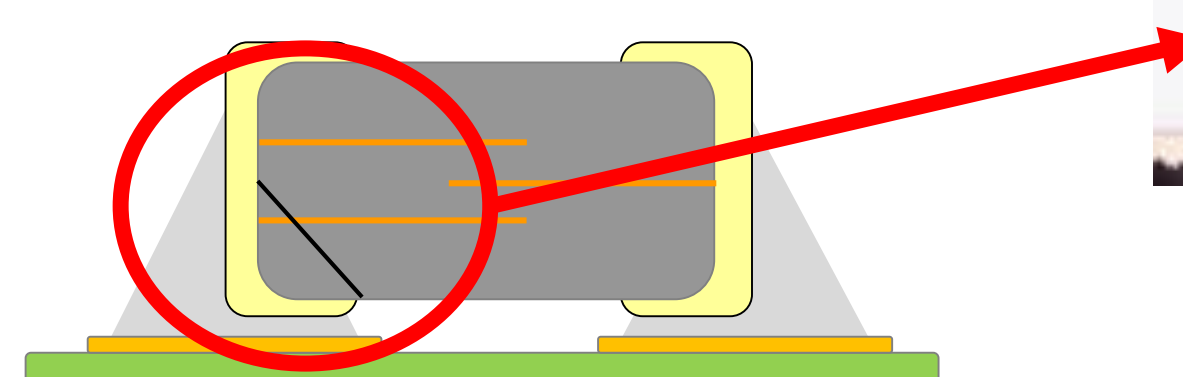
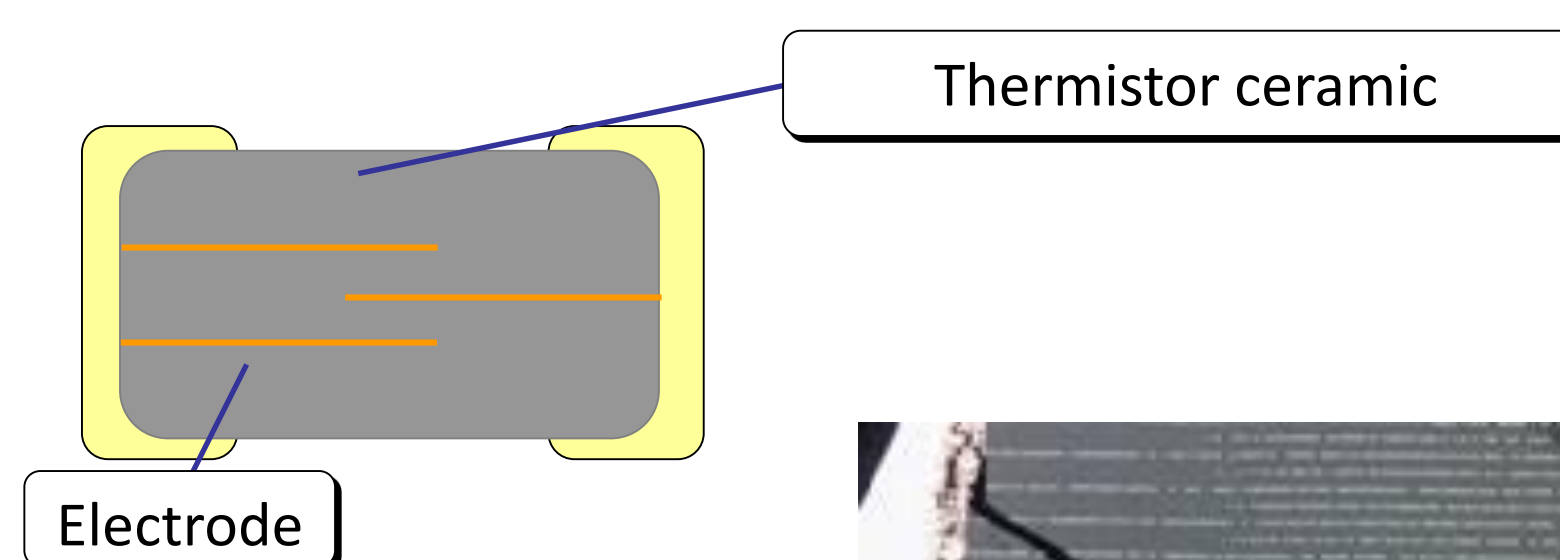


Tateyama : Thick Film Structure



No damage

Others : Multi layer structure



Excellent Resistance to thermal shock
and substrate bending feature in mounting.

Product Specification

Item	TDT	TNT
Temperature	-40°C~175°C	-40°C~200°C
Chip size (Inch)	0603, 0805	1206
Power rating	5mW	5mW
Dissipation constant (In Air)	Less than 1.5mW/°C	Less than 1.5mW/°C

Application example

- Automotive ▪ ▪ Measuring outside air temp. , Temp. detecting of cooling water, controlling headlight
- Space ▪ ▪ Temp. detecting of controlling board, Temp. monitoring of heating element and component
- Industrial ▪ ▪ Temp. compensation of IGBT module, Preventing overheating of inverter
- Printer ▪ ▪ Compensation of Dot density, temperature detecting of controlling board FET
- Communication equipment ▪ ▪ Temp. correction of crystal oscillator, battery protection circuit



Tateyama Kagaku Co.,Ltd.