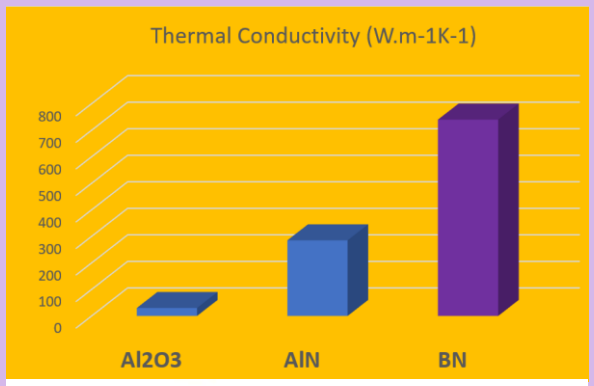
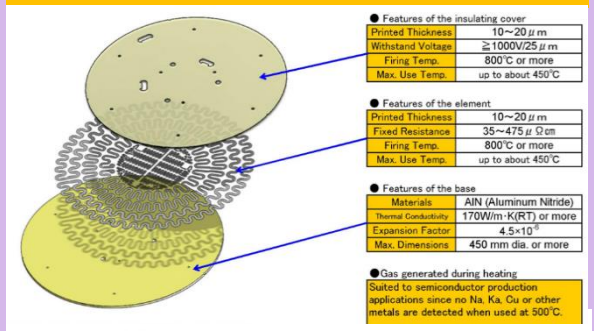
Cactus Materials

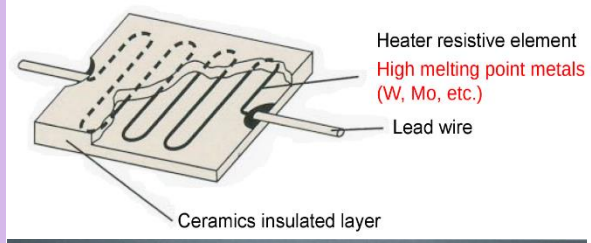
presents

The Ultra-Ceramic Thermal Heaters

1. ***Ultra-Ceramic Boron Nitride (BN) Thermal Heater*** *– Cactus designed Industry's first BN heater with the highest power density (3 W/mm^2) and faster heating/cooling (>500°C/sec ramp rate), up to 1600°C*
2. ***Ultra-Ceramic Aluminum Nitride (ALN) Thermal Heater*** *– Power density (2 W/mm^2) and faster heating/cooling (>300°C/sec ramp rate)*
3. ***Ultra-Ceramic Alumina (Al_2O_3) Thermal Heater*** *– Power density (1.5 W/mm^2) and faster heating/cooling (>200°C/sec ramp rate)*
4. ***High watt density Micathermal heater and Jacket Heater*** *– High temp up to 800°C*







- **Designed in USA, exclusively manufactured in Japan, the highest quality in industry!**
- **Patent pending manufacturing process.**
- **Post fire design allows for the production of prototype, small scale and high volume production at low cost!**

Applications:

- Appliances: electric ranges, irons, in-floor heaters, space heaters, medical devices, etc.
- Industrial: mold heating, medical devices, semiconductor production, liquid crystal production, OLED production, solar cell

Industrial **Medical**

Semiconductor **Consumers**

High heat dissipation heater

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