

LOW PRESSURE CAPSULE/POD COFFEE MACHINES



Instantaneous heat exchanger with integrated pump.

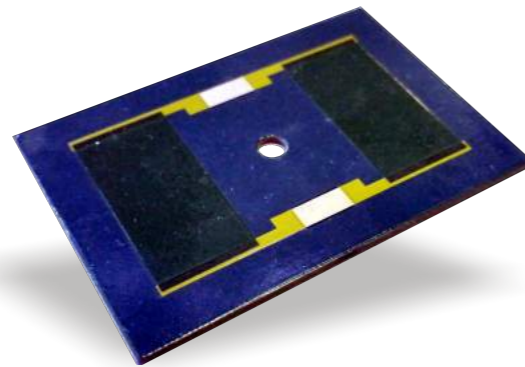
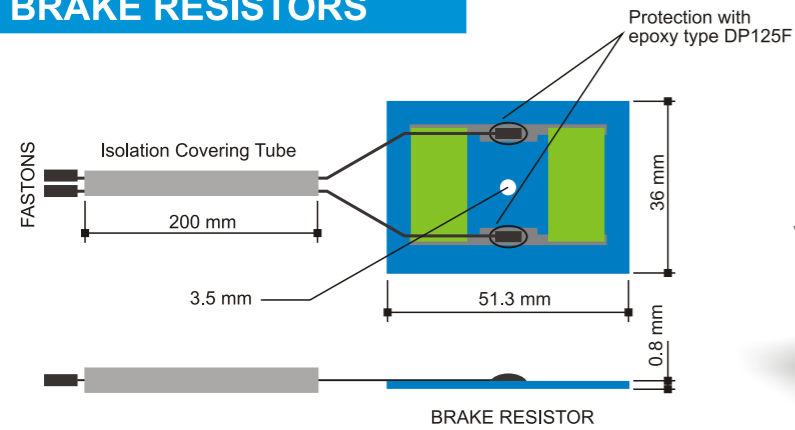
Internal circuit made in AISI and thermoplastic material suitable for food contact, heating element "thick film" for maximum heating efficiency.

It stands out for its compactness and as the quickest and efficient heat exchanger on the market, no time to wait for heat up allows to remove standby function.

| Characteristics | Value | Unit | Notes |
|--|-------------|---------|-------------------------|
| Power | 1500 | Watt | Other values on request |
| Voltage | 100-120-230 | Volts | |
| Heat up time from 20°C to 90°C | 2-3 | seconds | @ 230V 1500W |
| Maximum flow at constant temperature (ΔT 75°C) | 285 | ml/min | @ 230V 1500W |
| Maximum working pressure | 3 | bar | |
| Breaking pressure | > 6 | bar | |

| Part | Material | Notes |
|------------------|---------------------|-------|
| Tube | AISI 304 / AISI 444 | |
| Internal circuit | PA6T / 6I (Grivory) | |

BRAKE RESISTORS



| Description | Specification | Note |
|---------------------|------------------------|-----------------------|
| Base Plate | INOX AISI 444-2B | |
| Resistor Value | 1500 Ohm (1400+1600) | |
| Overglaze | Thickness 15-18µm Min. | Type QQ550 |
| Power Max | 460 W | |
| Temp. Max Operating | 200 °C | |
| Insulated Voltage | > 2500 VDC | |
| Wire Type | SAMI UI1901 AWG20/19 | 2x250mm |
| Isolation Cov. tube | PTFE PLASTICA AM | 200mm Diam. Int. 3.38 |
| Faston | JST STO-1.0T-250N | 2x Fem. 6.3x0.8 |
| Isolat. Cover | CS 63N004 | Serie 63 Female |

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POWER RESISTORS
HEATING ELEMENTS & BRAKING RESISTORS

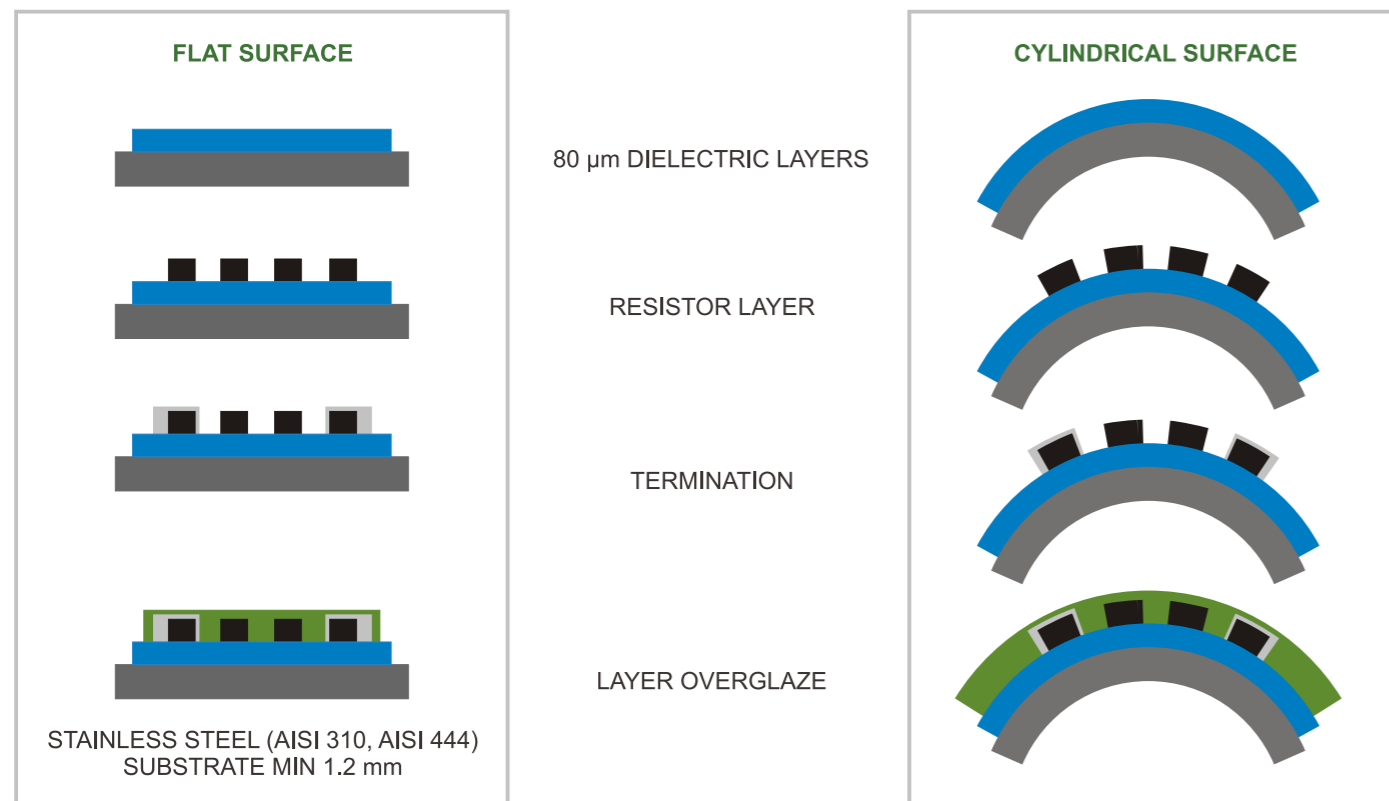
THICK FILM RESISTORS

AUREL Microelectronic Division has developed a line of Thick Film Resistors on stainless steel substrates used for heating applications as well, with different design features, suitable for braking, snubbing and discharge requirement applications.

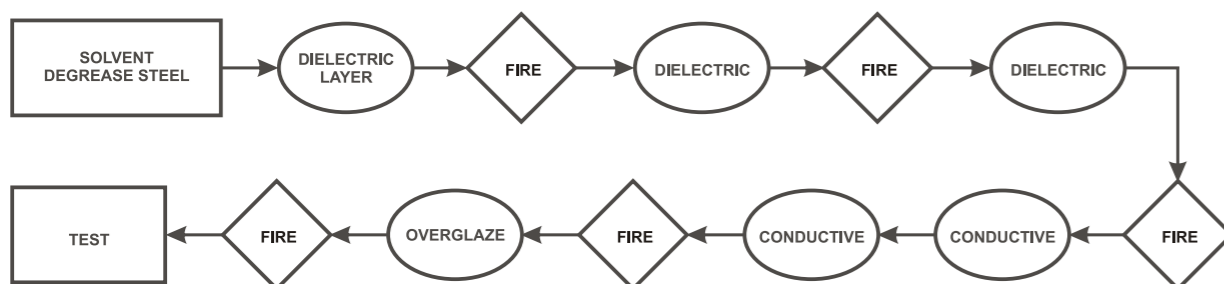
Heating Elements and Braking resistors based on thick film technology, are realized printing on Stainless Ferritic and Austenitic substrates an electrically insulating, but thermally conductive, ceramic dielectric layer.

On this are subsequently printed conductive and resistive layers to obtain the desired resistor and capability issue.

PROCESSING MATERIALS



BUILD SEQUENCE



HEATING ELEMENTS



COFFEE MACHINES



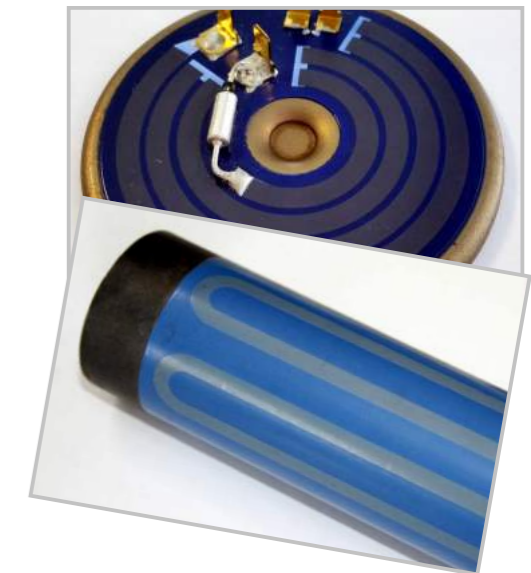
KETTLES



BOILERS

FEATURES

- Low thermal mass: quicker heating, energy saving.
- Capability to generate flat elements: direct heat to food or water, thinner construction.
- Capability to select and control Resistance and TCR: better performance and control.
- Potential to integrate additional functionality: more compact design.
- Rapid design and flexibility: low investment and start-up cost.



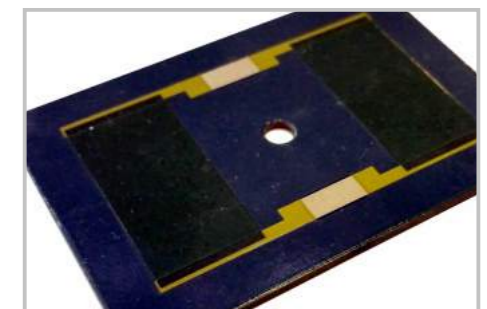
BRAKING RESISTORS



CHARGE & DISCHARGE CIRCUITS
FOR HYBRID ELECTRIC VEHICLE



MOTION CONTROL SYSTEM
FOR ELEVATORS



FEATURES

- Improved thermal transfer for high power density applications.
- Reduced size and compact design.
- Higher reliability against shocks and vibration.
- A cost effective solution for power application.