

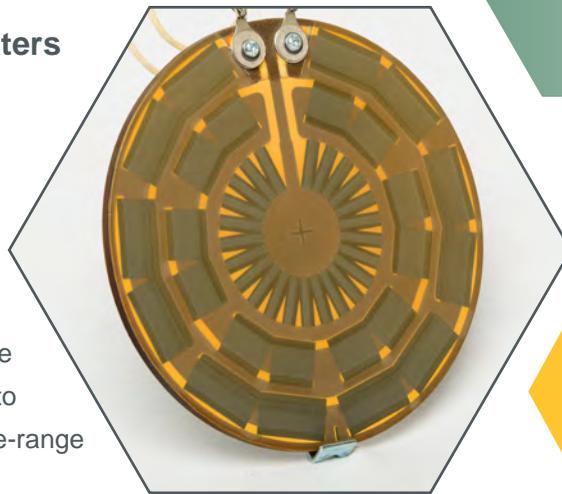
Integrated Heating Solutions for your Products

IntegrAL®

Aluminum Based Thick-Film Heaters

At Datec, we provide OEMs with the high performance, thick-film heating components they need to manufacture and advance their products.

Datec is leading the industry with the unique ability to **print** heating elements directly onto aluminum offering a seamless fit into a wide-range of product footprints. Our IntegrAL heating technology produces fast, precise, uniform and integrated heat meeting customers demand for performance, reliability and energy efficiency.



Applications

- Small Appliances
- Consumer Products
- Industrial Processing
- Medical/Semiconductor
- Aerospace and Defense

Benefits

With Datec's heating elements **printed** directly onto aluminum, the thin and low-profile IntegrAL provides:



UNIFORM INTEGRATED HEAT

The resistor circuit covers a complete area resulting in even heating.



HIGH PERFORMANCE

Testing continually proves IntegrAL has unsurpassed thermal performance and reliability.



RAPID THERMAL CYCLING

The conductivity of aluminum combined with a powerful thick-film heater results in rapid heating and cooling cycles.

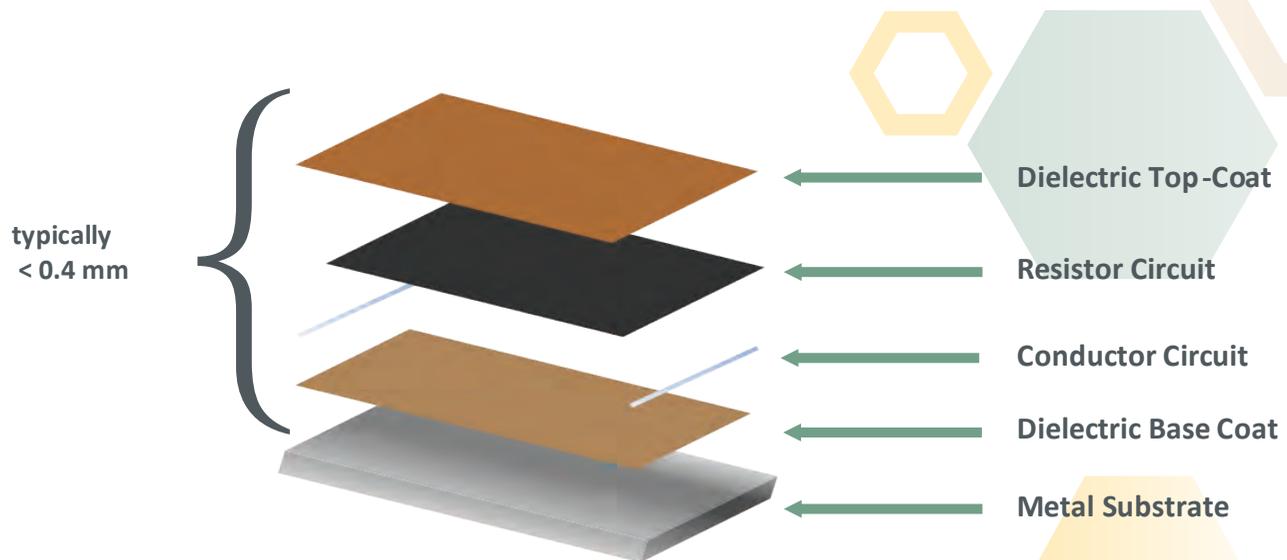


TEMPERATURE CONTROL

The ability to maintain precise and constant temperatures.

Technology

The key technology in the IntegrAL heater is thick-film layers, which incorporate Datec's patented sol-gel technology.



Technical Specifications

Maximum Operating Temperature	UL recognized to 240°C
Power Density	Up to 150 W/in ² UL recognized to 80 W/in ²
Voltage	UL recognized to 240V (AC or DC)
Maximum Size	Dependent on application
Resistive Tolerance	Typically +/- 10%, special order +/- 5%
Certifications	UL file # E303007 E322202 

About Datec

Whether it is an off-the-shelf IntegrAL heater or a custom heating component, Datec is the ideal partner to design, develop and manufacture an innovative heating solution to advance your products today and tomorrow.

For more information on how **IntegrAL** can be integrated into your products, please contact Datec today!

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