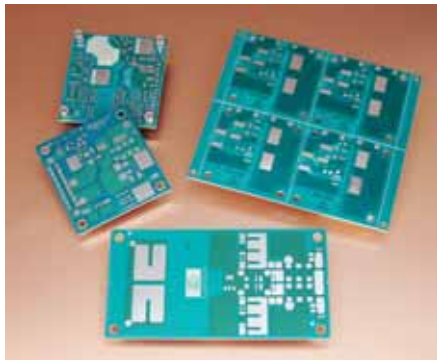


Thermal Clad Applications

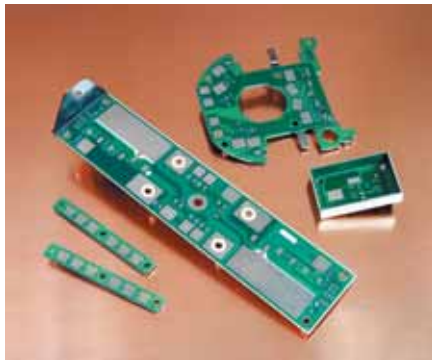
Power Conversion

Due to the size constraints and watt-density requirements in DC-DC conversion, Thermal Clad has become the favored choice. Thermal Clad is available in a variety of thermal performances, is compatible with mechanical fasteners and is highly reliable. It can be used in almost every form-factor and fabricated in a wide variety of substrate metals, thicknesses and copper foil weights.



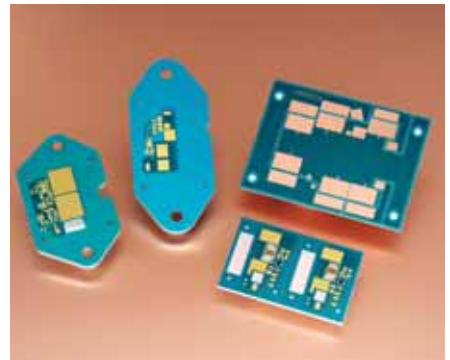
Heat-Rail And Forming

The use of Thermal Clad in heat-rail applications has increased significantly and is currently used in automotive, audio, motor control and power conversion applications. Thermal Clad offers many advantages including surface mount assembly, attachment capabilities and excellent thermal performance. The dielectric can be selectively removed and the metal can be formed with three-dimensional features making Thermal Clad a versatile substrate.



Solid State Relays/Switches

The implementation of Solid State Relays in many control applications calls for thermally efficient, and mechanically robust substrates. Thermal Clad offers both. The material construction allows mounting configurations not reasonably possible with ceramic substrates. New dielectrics meet the high thermal performance expectations and can even out-perform existing ceramic based designs.



Motor Drives

Compact high-reliability motor drives built on Thermal Clad have set the benchmark for watt-density. Dielectric choices provide the electrical isolation necessary to meet operating parameters and safety agency test requirements. With the ability to fabricate in a wide variety of form-factors, implementation into either compact or integrated motor drives is realized. The availability of Thermal Clad HT makes high temperature operation possible.



LEDs

In Power LED applications, light output and long life are directly attributable to how well the LED's are managed thermally. Thermal Clad is an excellent solution for designers. T-Clad is a metal based material (often referred to as a MCPCB), and can be configured for special shapes, bends and thicknesses thus allowing the designer to put LED light engines in virtually any application. Mounting Power LED's on T-Clad assures the lowest possible operating temperatures and maximum brightness, color and life.



Want to maximize the lifecycle and color consistency of your LEDs?

This LED-specific solutions guide addresses important factors and recommendations for selecting a thermal management solution ideal for your LED design.

