

## **IMB TECHNOLOGY**

*A common challenge for the electronics industry is how to make products smaller, while delivering better electrical and thermal performance and functionality. And, at the same time, ensuring competitive total cost of ownership.*

*In Imbera Electronics' IMB technology the components are embedded inside an organic substrate through a process that combines PCB manufacturing, component packaging and component assembly into a single manufacturing sequence, thereby making production simple while ensuring very competitive total cost of ownership.*

### **Miniaturization**

Embedding part of the active and/or passive components into a substrate enables the volume of the end product to be cut by over 40%. Embedding these components releases surface space for other components or allows the substrate size to be reduced.

### **Design flexibility**

Imbera's technology gives unparalleled design flexibility, since the component is located between the PCB conductor layers instead of on top of the PCB.

### **Excellent electrical performance**

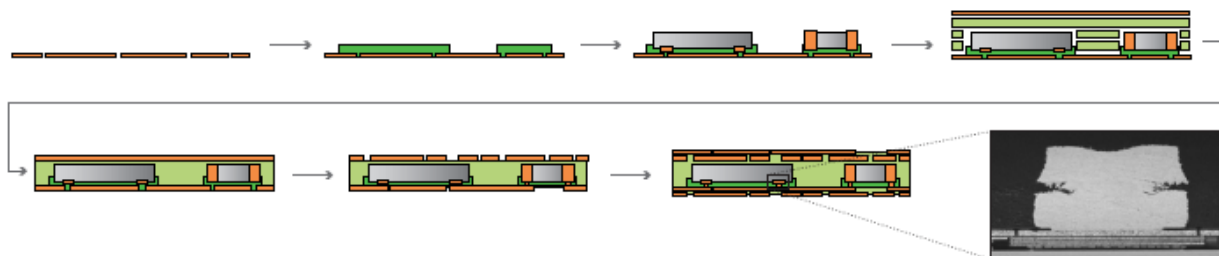
Short, metallurgical interconnections enable parasitics to be reduced. Integrated EMI shield can be manufactured for use in applications that require high-level isolation.

### **Powerful thermal management options**

Thermal structures (e.g. copper vias) can be in direct contact with the front or rear side of the component, conducting the heat away from the IC and resulting in excellent thermal properties.

### **Cost-efficiency**

Standard high-volume manufacturing equipment and commercially available materials can be used in the IMB manufacturing process. With an extensive supply base and robust processes, Imbera can provide embedded solutions with competitive total costs of ownership.



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