

# MacuSpec PPR

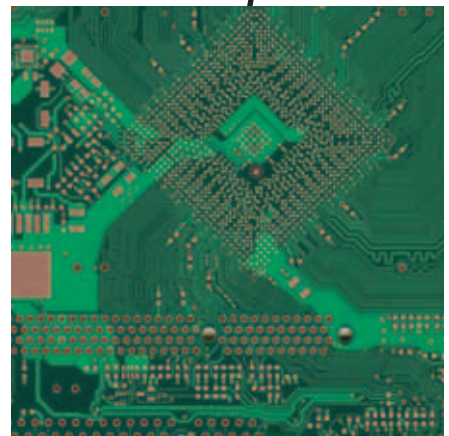
## Electrolytic Copper Metallization

### Thickness Uniformity That Pays For Itself

**MacDermid MacuSpec PPR** is the electroplating process trusted worldwide by fabricators that demand precise thickness uniformity and overall productivity unattainable by conventional acid copper plating. Designed to work more effectively on today's multilayer PCB's, it can easily meet the most challenging plating specification.

Part of MacDermid's family of electrolytic copper plating processes, **MacuSpec PPR** delivers a more consistent electrolytic copper deposit in a shorter amount of time than is possible with traditional DC methods, thereby enabling users to increase overall output. It allows plating of a desired thickness in the center of the hole while plating less on the outer surface of the printed circuit board, greatly reducing the consumption of copper anodes and solder mask. Uniform copper distribution allows a reduction in dry film thickness, resulting in lower operating costs. MacuSpec PPR also successfully plates high aspect ratio through-holes and blind microvias simultaneously, without the need for multiple plating cycles. Its superior throw into high-aspect ratio through-holes can reduce plating time up to 70%.

When you need a quantum improvement in thickness uniformity and productivity, count on the company that says "Yes We Can." MacDermid.



### Key Features

- Exceptional thickness uniformity
- Reliable thermal cycle performance
- Superior throw into vias: up to 70% cycle time reduction
- Reduced consumption of copper anodes and solder mask
- The right choice for today's thicker, high density panels

**YES WE CAN**<sup>SM</sup>

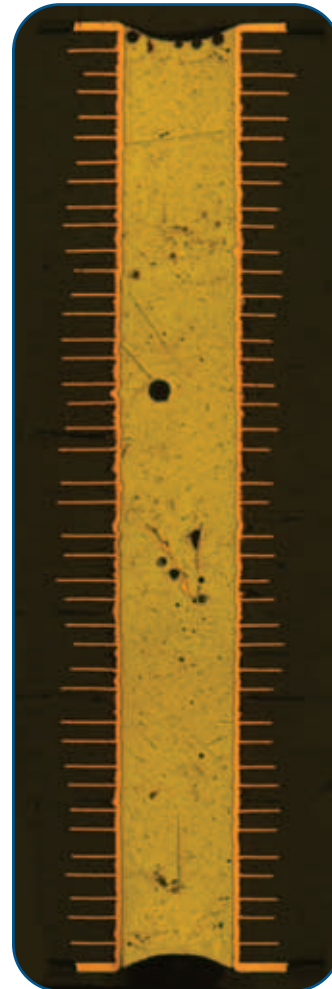
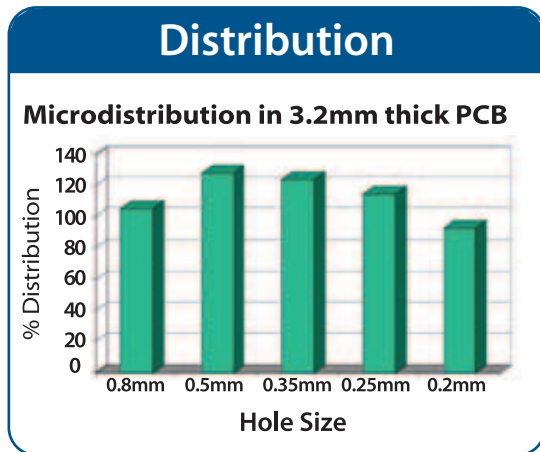
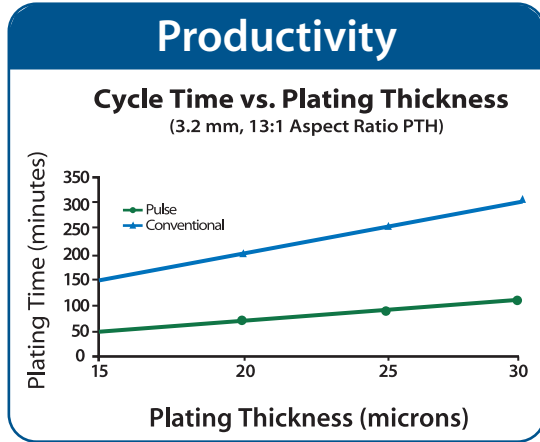
 **MacDermid**  
Electronics Solutions

# MacuSpec PPR

## Electrolytic Copper Metallization

### Achieve Your Plating Goals While Minimizing Cycle Time

MacDermid, a leader in electroplating technology, offers **MacuSpec PPR and PPR 100** as optimal solutions for fabricators that require thickness uniformity at the lowest possible cost. With superior throwing power into blind microvias and high aspect ratio holes, MacuSpec PPR is the perfectly engineered alternative to conventional acid copper plating.



42-layer high aspect ratio through-hole, 0.4 mm diameter in 6.4 mm thick PCB.

**YES WE CAN**<sup>SM</sup>

It takes more than innovative, high performance products and superior technical service to help our customers compete and win in today's global marketplace. It takes a total commitment to understanding their needs and the ability to provide the right solutions—every time.

When success is your only goal, trust the company that says "Yes We Can."

 **MacDermid**  
Electronics Solutions

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