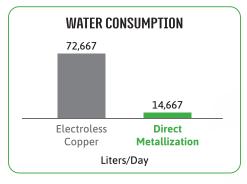
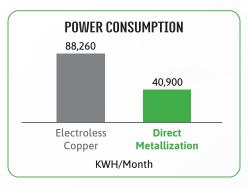
## **CHOOSE A**

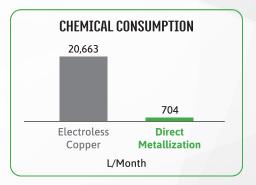
## **GREENER, MORE SUSTAINABLE ALTERNATIVE**

## FROM YOUR PCB SUPPLIER

	EFECTIVATE 99 CALLEY	SUMPONAL DEVELOPE DIVERS METALLITATION
PROCESS STEE	§ 15+ horizontal or vertical steps	~6 horizontal steps 89% Reduction in process time
CHEMICAL CONSUMPTION	Constant chemical breakdown and high chemical consumption	No chemical breakdown, minimal chemical usage 97% Reduced chemical consumption
OPERATION OPERATION	High temperature, high water usage	Low Temp, minimal rinsing 57% Reduced power usage, 80% Reduced water usage
RATE OF CHAN	Requires constant chemical addition to maintain plating	Non-dynamic process chemistry  Consistent product, consistent quality

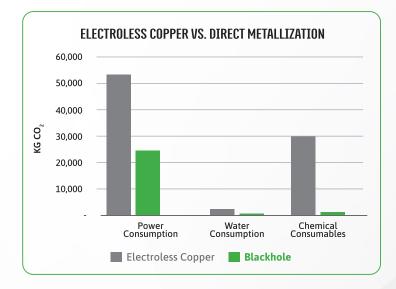






CHANNIM/RI ACKHOLE DIRECT METALLIZATION

Automated processing, low temperature, stable chemistry, and fewer process steps **reduce energy consumption** and **increase the value** obtained from using direct metallization.



FI FCTRNI FCC CNPPFR

## 2m/min lines, 240,000m<sup>2</sup> per year lines CO<sub>2</sub> equivalent emissions reduced by:

- 57% for power consumption
- 80% for water consumption
- 97% for transportation
- 97% for packaging
- 97% for chemical consumables





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