

# Next Generation of Pattern Viafill Plating Technology

# 新一代图形填盲孔电镀铜技术

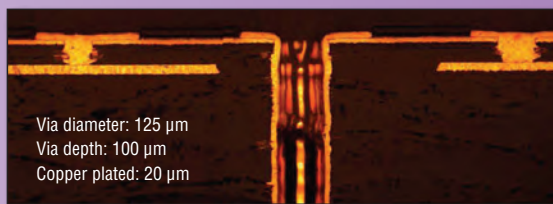
## MICROFILL™ EVF and EVF-S Copper Via Fill

The latest generation technology developed by Dow Electronic Materials for advanced viafill plating, MICROFILL™ EVF/EVF-S Copper Via Fill provides enhanced via filling, with simultaneous through-hole plating, at surface thicknesses unattainable. Formulated to operate in existing equipment over a broad range of operating conditions, MICROFILL™ EVF/EVF-S Copper Via Fill is suitable for both HDI and IC Substrate applications. It is proved by sufficient experience that MICROFILL™ EVF/EVF-S Copper Via Fill could help to reduce 20% plating thickness and helps to improve varied plating defects.

MICROFILL™ EVF/EVF-S 盲孔电镀，陶氏电子材料(原罗门哈斯电子材料)所发展最新一代高阶填盲孔电镀技术，具备卓越的填孔表现，并同时兼顾通孔贯孔以及盲孔填孔。此系统可应用于现有的设备上并具备广泛的操作系统范围。MICROFILL™ EVF/EVF-S可应用于HDI与IC SUBSTRATE电镀。根据足够的经验显示，MICROFILL™ EVF/EVF-S，得以有效的降低20%的电镀厚度并改善多种电镀缺陷。

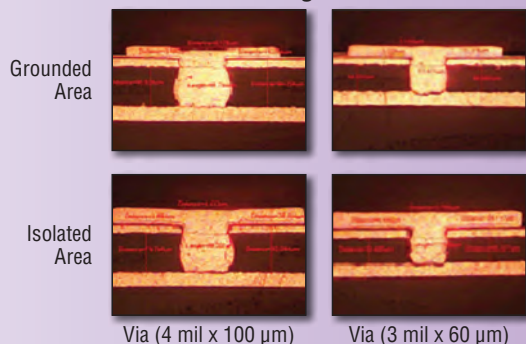
### Features and Benefits 特性及优点

- Low plating thickness (20 μm)  
较薄的电镀厚度 (20 μm)
- Exceptional microvia filling performances  
优越的盲孔电镀填孔表现
- Simultaneous microvia filling and through-hole plating at HDI application  
于HDI制程中，可同时兼顾填孔表现及通孔贯孔能力
- Rectangle trace profile for W/B application  
线路形状方正，可搭配使用于打线制程
- Excellent reliability  
优良可靠性
- Easily analyzed and controlled by conventional CVS  
容易控制，可用CVS测量
- Compatibility with both panel and pattern plating processing  
可适用于全板或图形电镀流程



Through hole throwing power >80% (for 5:1 AR through hole at 1.8 ASD and 20 μm copper thickness)

### Pattern Filling Performances



Current Density: 18 ASF  
Flow Rate: 0.6 bar  
Copper Plated: 20 μm  
Plating Distribution: ±4 μm  
Via diameter: 125 μm  
Via depth: 100 μm  
Dimple: <10 μm

### Trace Profile

