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Embedded Rdl Enabled By Excimer

The paper proposes a new process based on the front end of line dual damascene integration flow for building multilayer RDL for Advanced Packaging using Excimer laser ablation. The new process uses Excimer laser ablation as the critical method to integrate via and RDL traces in one patterning process step, followed by seed layer deposition, plating and standard planarization processes.

Embedded RDL Enabled by Excimer Laser Ablation ...

To enable panel and wafer based interposers to reduce RDL cost and scale interconnect pitch to 40um and below, excimer laser ablation is introduced as a direct patterning process that uses proven industrialized excimer laser sources to emit high-energy pulses at short wavelengths to remove polymer materials with high precision and high throughput.

Embedded RDL formation in Non-Photo Polymers using Excimer ...

Excimer laser ablation for microvia and fine RDL routings for advanced packaging By Habib Hichri, Markus Arendt [SUSS MicroTec Photonic Systems, Inc.] xcimer laser ablation is a direct etching process using high-energy pulses at short wavelengths that allows patterning of most polymers at minimal thermal impact through bond breaking.

Excimer laser ablation for microvia and fine RDL routings ...

In the excimer laser ablation process, patterning after curing provides complete pattern integrity of the structure profile as compared with structures made using photolithography process. The chapter also presents the advantages of excimer laser enabled dual damascene RDL.

Excimer Laser Ablation for the Patterning of Ultra-fine ...

Embedded RDL Enabled by Excimer Laser Ablation - IMAPS Device Packaging Conference 2016 AFFECT OF ABLATION ON METAL PAD/UNDERLYING METAL 3rdparty confirmation of no damage to Cu pads □Excimer ablation over Cu and Al pads:

Reliability of Ultra-fine Line Multi-Redistribution Layers ...

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profile of embedded RDL and via formed by excimer laser ablation in ABF GX92 film (15um thick, 15/15um L/S). The dual damascene process ends in a planarization step (see metal reduction step in...

Fine Line Routing and Micro Via Patterning in ABF Enabled ...

To enable panel and wafer based interposers to reduce RDL cost and scale interconnect pitch to 40um and below, excimer laser ablation is introduced as a direct patterning process that uses proven ...

Fine Line Routing and Micro via Patterning in ABF Enabled ...

report experimental results where RDL trenches were filled with less than 0.5µm overburden, which is easily removed by a combination of de-plating and either wet etching or excimer laser ablation, with no damage to the embedded conductors. EXcimEr laSEr ablatiON PattErNING One of the key enablers for the improved em-

Creating Planar Embedded RDL Structures Without CMP

Alternative Patterning Solution: Excimer Laser Enabled RDL Formation Fine features: micro vias and 2/2um L/S RDL RDL structure is embedded; Seed Layer Removal and RDL trace stability not a concern anymore Direct Laser Patterning (dry etching) with curing before patterning - maintain pattern integrity

FABRICATION AND RELIABILITY OF ULTRA-FINE RDL STRUCTURES ...

In this paper, we propose a new process based on the front-end-of-line (FEOL) dual damascene integration flow for building multilayer embedded RDL for Advanced Packaging. The new process uses excimer laser ablation to integrate via and RDL traces in one patterning process step, followed by seed layer deposition, plating and planarization processes.

Novel Process of RDL Formation for Advanced Packaging by ...

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To enable panel and wafer based interposers to reduce RDL cost and scale interconnect pitch to 40um and below, excimer laser ablation is introduced as a direct patterning process that uses proven industrialized excimer laser sources to emit high-energy pulses at short wavelengths to remove polymer materials with high precision and high throughput.

Fine Line Routing and Micro via Patterning in ABF Enabled ...

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