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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 ...

Embedded Rdl Enabled By Excimer Embedded RDL Enabled by Excimer Laser Ablation. Habib Hichri. SUSS MicroTec, 220 Klug Circle, Corona, CA, 92880, USA. 951-817-3791, Habib. Hichri@suss. com. The continuous trend of the miniaturization, increasing performance and mobility of electronic devices drive the requirements of

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Reliability of Embedded Laser RDL Patterning for Advanced Packaging 4. ... Excimer Laser Enabled RDL Formation Fine features: micro vias and 2/2um L/S RDL Embedded Rdl Enabled By Excimer Embedded RDL Enabled by Excimer Laser Ablation. Habib Hichri. SUSS MicroTec, 220 Klug Circle, Corona, CA, 92880, USA. 951-817-3791, Habib. Hichri@suss. com.

Embedded Rdl Enabled By Excimer Laser Ablation

Embedded Rdl Enabled By Excimer With this type of patterning technology the industry gets access to materials that do not require photo patterning. 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. Embedded RDL Enabled ...

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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.

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

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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 ...

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report experimental results where RDL trenches were filled with less than 0.5 μ m 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

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 ...

Excimer laser ablation creates the needed fine resolution, fine-pitch, embedded RDL structures. The use of better performing dielectrics (i.e. non-photo materials) allows for improved thermal, mechanical and electrical reliability, which is further enhanced by the planarization of dual-damascene layers by plating and de-plating of CMP processing.

Automated Laser Stepper ELP300 | SUSS MicroTec

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 ...

The continuous trend in miniaturization, increasing performance and mobility of electronic devices drives not only the requirements of the chip itself, but

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

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 ...

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