

electroless nickel immersion gold pdf

Electroless nickel immersion gold (ENIG) is a type of surface plating used for printed circuit boards. It consists of an electroless nickel plating covered with a thin layer of immersion gold, which protects the nickel from oxidation.. ENIG has several advantages over more conventional (and cheaper) surface platings such as HASL (solder), including excellent surface planarity (particularly ...

Electroless nickel immersion gold - Wikipedia

Specification for Electroless Nickel/Electroless Palladium/ Immersion Gold (ENEPIG) Plating for Printed Circuit Boards 1 SCOPE 1.1 Statement of Scope This specification sets the requirements for the use of Electroless Nickel/Electroless Palladium/ Immersion Gold (ENEPIG) as a surface finish for printed boards.

IPC-4556 Specification for Electroless Nickel/Electroless

Specification for Electroless Nickel/Immersion Gold (ENIG) Plating for Printed Circuit Boards 1 SCOPE 1.1 Scope This specification sets the requirements for the use of Electroless Nickel/Immersion Gold (ENIG) as a

ELECTRONICS INDUSTRIES Specification for Electroless

Electroless nickel plating (EN) is an auto-catalytic reaction that deposits an even layer of nickel-phosphorus or nickel-boron alloy on the surface of a solid material, or substrate, like metal or plastic. The process involves dipping the substrate in a bath of plating solution, where a reducing agent, like hydrated sodium hypophosphite ($\text{NaPO}_2 \cdot 2\text{H}_2\text{O}$), reacts with the material's ions to ...

Electroless nickel plating - Wikipedia

The UIC ENIG Process produces a highly uniform mid-phos EN deposit with a thin topcoat of immersion gold, over copper. It never requires a dummy plating. UIC ENIG provides high corrosion resistance, is

Line Card: Final Finishes - Uyemura International

Surface Finish Types Metallic Coatings: HASL (Hot Air Solder Level) ENIG (Electroless Nickel/Immersion Gold) Electrolytic Ni /Au (Electrolytic Nickel / Gold) Electrolytic Ni /Au (Electrolytic Nickel / Gold)

Surface Metal Plating - FrontierMaterials.net

UIC's fiscal year just concluded. What it revealed was record sales, and our indisputable position as the industry's #1 supplier of ENIG, ENEPIG, electroless

Phos Palladium for Gold Wire Bonding to an ENEPIG Finish

CORROSION RESISTANCE OF ELECTRO LESS NICKEL COATINGS Replacement or repair of corrosion damaged equipment is the largest maintenance requirement for industry.

CORROSION RESISTANCE OF ELECTRO LESS NICKEL COATINGS

All about the connectivity between the PCB and component devices. Primary function is to either temporarily protect the copper area from oxidation prior to assembly or to form the foundation of the connection

Viasystems Surface Finishes - SMTA

4 SURFACE FINISHES Element Symbols: Copper Cu Gold Au Silver Ag Tin Sn Nickel Ni Lead Pb Carbon C Germanium Ge Palladium Pd

Surface Finishes: Why do I need to know more?

all of the exposed nickel is replaced with gold, thus an upper limit of approximately 8 microinches (0.2 microns) is found with the process. While obviously a more complex coating method than OSP, the advantage of the electroless nickel/immersion gold process is

Alternatives To HASL: Users Guide For Surface Finishes

Epec, LLC Duchaine Blvd. New Bedford, MA 01901 P: 508.555.5555 www.epectec.com Printed Circuit Board with Electroless Nickel Immersion Gold (ENIG) Surface Finish

Printed Circuit Board Surface Finishes – Advantages and

6-03-15 IVF Project Report 06/07 Review of the Impact of Intermetallic Layers on the Brittleness of Tin-Lead and Lead-Free Solder Joints Per-Erik Tegehall, Ph.D.

Review of the Impact of Intermetallic Layers on the

Industry experts and the general public provide answers to 60,000 finishing questions from readers

The Finishing.com Hotline (Public Forum) for finishing

Technologies Surface Finishes. PCB Surface Finishes vary in price, availability, shelf life, reliability and assembly processing. While each finish has its own benefits, in most cases, the process, product or environment will dictate the surface finish that is best suited for the application.

Multicircuits PCB - Surface Finishes

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Application Note 62 Soldering Guidelines for BTCs DOC-78164-1 (10/2016) Page 3 www.psemi.com SMD P Solder Paste Printing Solder Paste The solder paste is the vehicle that provides the flux and solder alloy necessary for a reliable

Soldering Guidelines for Mounting Bottom-terminated Components

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