

Flip Chip Bonding Mit Umstellung Auf Bleifreie Lotmaterialien: Fachübergreifende Studienarbeit - Jens Markusch

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Die Hauptaufgabe der Verbindungstechnologien ist es, einzelne Komponenten und Teilsysteme in einem funktionsorientierten elektronischen Gesamtsystem zu vereinigen. Das Packaging ist heute maßgeblich verantwortlich für die Funktionalität, Qualität und Wirtschaftlichkeit von mikroelektronischen Standardprodukten. Damit bestimmen insbesondere die verwendete Technologie, die Materialauswahl und der Aufbau des Systems, die Größe, das Gewicht, die Leistungsfähigkeit, die Handhabbarkeit, die Zuverlässigkeit und zuletzt auch den Marktpreis des entsprechenden Produktes. Diese Parameter beeinflussen entscheidend den Markterfolg. Ein weiterer entscheidender Einflussfaktor für die Neu- und Weiterentwicklung des Packaging ist die dynamische Entwicklung in der Halbleiter- Technologie. In dieser Studienarbeit soll weiterhin die Umstellung von bleihaltigem auf bleifreies Lot implementiert werden. Für die Hersteller von elektronischen Komponenten bricht ab Mitte 2006 eine neue Ära an, denn mit Wirkung zum 01. Juli 2006 treten die neuen EU Richtlinien 2002/95/EG (Verordnung über die Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten) und 2002/96/EG (Verordnung über Elektro- und Elektronik-Altgeräte) in Kraft. Diese Richtlinien verbieten das Neuinverkehrbringen von Geräten die giftige Metalle, wie Blei, Quecksilber, Cadmium, sechswertiges Chrom oder bromierte Flammschutzmittel, enthalten. Author: Markusch, Jens Publisher: GRIN Verlag Illustration: N Language: GER Title: Flip Chip Bonding mit Umstellung auf bleifreie Lotmaterialien: Fachübergreifende Studienarbeit Pages: 00064 (Encrypted PDF) On Sale: 2011-01-01 SKU-13/ISBN: 9783640818532 Category: Technology & Engineering : Electricity Category: Science : General

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