

IPC/JEDEC J-STD-033C  
February 2012  
Supersedes IPC/JEDEC J-STD-033B  
Includes Amendment 1  
October 2008

# ***JOINT INDUSTRY STANDARD***

**Handling, Packing,  
Shipping and Use of  
Moisture/Reflow  
Sensitive Surface  
Mount Devices**



# Ipс J Std 033c

**WJ Hussar**



## **Ipc J Std 033c:**

**Lead-free Electronics** Sanka Ganesan, Michael G. Pecht, 2006-02-17 Lead free Electronics provides guidance on the design and use of lead free electronics as well as technical and legislative perspectives All the complex challenges confronting the electronics industry are skillfully addressed Complying with state legislation Implementing the transition to lead free electronics including anticipating associated costs and potential supply chain issues Understanding intellectual property issues in lead free alloys and their applications including licensing and infringement Implementing cost effective manufacturing and testing Reducing risks due to tin whiskers Finding lead free solutions in harsh environments such as in the automotive and telecommunications industries Understanding the capabilities and limitations of conductive adhesives in lead free interconnects Devising solutions for lead free flip chip interconnects in high performance integrated circuit products Each chapter is written by leading experts in the field and carefully edited to ensure a consistent approach Readers will find all the latest information including the most recent data on cyclic thermomechanical deformation properties of lead free SnAgCu alloys and a comparison of the properties of standard Sn Pb versus lead free alloys using the energy partitioning approach With legislative and market pressure to eliminate the use of lead in electronics manufacturing this timely publication is essential reading for all engineers and professionals in the electronics industry

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