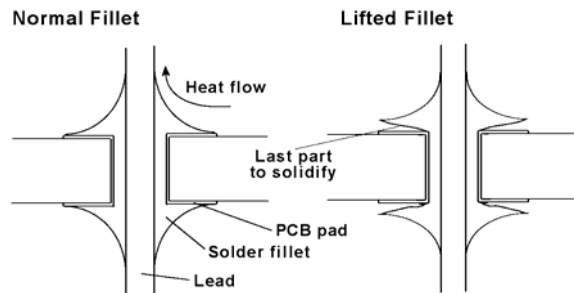


A Guide To Lead-Free Soldering for Assemblers & Sub-Contractors

A CONCISE SOURCE FOR LEAD-FREE SOLDERING

- How will the European Directive banning the use of lead in electronic and electrical equipment impact your business?
- Have you the knowledge and information you need to meet the regulations?
- Do you know how to go about it, when you need to be lead-free and when you need to start preparing?



A Guide To Lead-Free Soldering for Assemblers & Sub-Contractors, by Roger Bilham, a metallurgist with many years' experience developing and making solder products, is a concise source of the information you'll need to help you integrate lead-free systems!

Topics covered in its 63 pages include!

- Legal position in Europe, USA, Japan and elsewhere including patents
- Lead-free & ROHS compliance
- Lead-free alloy requirements – technical and economic
- Problems posed by lead-free solders
- Melting temperatures
- Oxidisation & corrosion
- Fillet lifting, cracking & tombstoning
- Tin whiskers & tin pest
- Fluxes
- Potential & practical lead-free alloys with their properties
- Use of nitrogen
- High temperature, high lead solder component internal connections, non-melting columns & balls, module assembly
- Lead-free process challenges – cost, temperature, process window, machine issues & flux residues
- Lead-free hot air solder levelling
- Components for lead-free soldering temperatures capabilities & terminations
- Mixed lead-free & lead containing solders & finishes
- Lead-free circuit board finishes
- Defects, inspection & quality
- Repair & rework
- Solder variety & standardisation
- Lead-free in the reflow process – temperature profile, machine implications
- Lead-free vapour phase soldering
- Environmental & cost disadvantages of lead-free solders
- Sources of further information

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A Guide To Lead-Free Soldering for Assemblers & Sub-Contractors is available as:

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