



DOCUMENT CHANGE REQUEST

DCR number 471 Changes required for: General

Originator: Anastasia Pesce

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Organisation: ESA/ESTEC

Status: IMPLEMENTED

Title: Requirements for Lead Materials and Finishes for Components for Space Application

Number: 23500

Issue: 4

Other documents affected:

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Para. 3.3 Page 8

Paragraph:

Para. 3.1 Page 5

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Original wording:

Proposed wording:

Delete Note 5 in Para. 3.3 and renumber notes accordingly.

Add a new text after the first sentence in Para 3.1 so that Para. 3.1 reads:

"Except where otherwise stated, only approved materials and finishes, as specified in this specification, shall be used on ESCC components. Under no circumstances shall Pure Tin finish, with more than 97% tin purity, be present on any exposed area of leads, terminals or terminations. (This is due to the possibility of tin whisker growth and the transformation to grey tin powder at low temperature.)


The lead or"

Justification:

The existing note is lacking in logic when it is to a list of allowed finishes which do not include pure tin.

Moving the requirement to Para 3.1, with the wording proposed, raises the profile of the requirement and also reduces the possibility of Pure Tin appearing in an ESCC Specification as a result of the clause "Except where otherwise stated".

The change from 98% to 97% is in recognition of the limit generally specified in the Mil System and proposed for inclusion in the forthcoming Issue C of ECSS-Q-ST-70-08.

Attachments:
N/A
Modifications:
N/A
Approval signature:

Date signed:
2009-02-06