



## DOCUMENT CHANGE REQUEST

DCR number	1254	Changes required for:	Proc	Originator:	MAILLARD
Date:	2020/04/21	Date sent:	2019/03/14	Organisation:	RAKON FRANCE
Status:	IMPLEMENTED				

Title: CRYSTAL OSCILLATORS, CLASS 2, 4MHz TO 100MHz, AHCMOS COMPATIBLE OUTPUT, RAD-

Number: 3503/001 Issue: 1

Other documents affected:

Page:

-

Paragraph:

-

Original wording:

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Proposed wording:

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Justification:

-



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Other documents affected:

Page:

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Paragraph:

1.5

Original wording:

In the table:  
- Operating temperature range (Top) : -55 to +125°C  
- Storage temperature range (Tstg) : -55 to +125°C

Proposed wording:

Operating temperature range (Top) : -55 to +110°C  
Storage temperature range (Tstg) : -55 to +110°C

Justification:

The below justification is based on RK135 evaluation and then qualification test results.  
Due to design limitations especially the use of a certain type of glue, the hybrid cannot be exposed to a temperature higher than +110°C either during operation or storage. Considering that the user has to consider the derating requirements of ECSS-Q-ST-30-11C in the application, the maximum temperature will in any case remain lower than +110°C. This temperature limitation will be transparent with any consequence for the users.

Attachments:

esc3503001iss2\_for\_publishing.docx

Modifications:

All other references in the specification to the operating temperature of +125C shall also be changed to be +110C i.e. in Para 2.3.2 High and Low Temperature Electrical Measurements.  
The Rise Time and Fall Time limits in the tables Paras 2.3.1, 2.3.2, 2.5, 2.9.2 (for fNom: 16MHz to 100MHz) are changed from 5ns to 7ns.

Note: for these tests in the table in Para 2.3.2, the test at 125C is removed and the test at 105C is changed to be at 110C.

Note: several additional minor editorial changes have been implemented in this issue including the addition of ESCC specification hyperlinks & internal cross-references.

Approval signature:



Date signed:

2020-04-21