

DOCUMENT CHANGE REQUEST

DCR number 1483 Changes required for: General Originator: Steve Thacker

Date: 2022/04/05 Date sent: 2022/01/18 Organisation: ESCC Executive

Secretariat

Status: IMPL	EMENTED				
Title:	Resistors Heaters Flexible Single and Double Layer, Follow-up Specification for ESA/SCC Detail				
Number:	4009/002	Issue:	11		
Other documents affected:					
Page:					
16					
Paragraph:					
Appendix A					
Original wordin	g:				
See 4009/002	issue 11				
Proposed word	ling:				
An additional deviation is included in RICA Appendix A to permit a modification to the high temperature measurement of Resistance Change: RA/RA(H) i.e. Change from a test at +200°C to one at +150°C with the change limit adjusted accordingly from +3.17% maximum to +2.29% maximum					
See attached mark-up specification for details					
Justification:					
This change is raised on behalf of Manufacturer RICA.					
RICAs justification is as follows: Due to the need to replace existing test hardware. RICA propose to standardise the high temperature test condition across					

Due to the need to replace existing test hardware, RICA propose to standardise the high temperature test condition across products (i.e. with 4009/004) and thereby use less energy with a reduced environmental impact.

The purpose of this test is to verify the temperature coefficient of the heater resistive element which can be done equally at +150°C as it can at +200°C.

Attachments:
escc4009002iss_draft_12a_in_review.docx
Modifications:
Modifications
The following additional changes are included in this DCR as agreed by ESA and RICA (see new attachment 4009/002 Draft 12B):
1. In Appendix A, add a requirement to test during Qualification and Periodic testing (on 3 samples from the Endurance Subgroup, on completion of subgroup testing), the Resistance change between +200 (+0 -3)°Cand +22 ±3°C per the original Para. 2.4.2 requirements & limits. No failures are allowed.
2. Add a note to the deviation to Para. 2.4.2 per this DCR, that the Resistance change between +200 (+0 -3)°C and +22 ±3°C shall be guaranteed but not tested. Additional changes as follows shall be included as agreed with all parties:
In Appendix A:
Under item Para. 2.1.1, add new deviation: • During Qualification and Periodic Testing, on completion of the Endurance Subgroup testing, 3 components selected at random from the test samples, shall be tested for Resistance change between +200 (+0 -3)°C and +22 ±3°C, RA/RA(H), in accordance with Para. 2.4.2 of this specification. No failures are allowed.
Under item Para. 2.4.2, amend 1st & 2nd sentences of the new deviation per DCR1483 to read: • Resistance change between +200 (+0 -3)°C and +22 ±3°C, RA/RA(H), shall be guaranteed but not tested. This test shall be replaced by a test performed at +150°C instead of +200°C as follows:
Approval signature:
Alternational
Date signed:
2022-04-05