	<u>ESC</u>	C		DC	DCUMENT	CHANGE REQUEST
DCR number	716	Changes ree	quired for:	Gen	eral	Originator: Steve Jeffery
Date: 2013/12	2/05	Date sent: 2012/03/02				Organisation: ESCC Executive
Status: IMPLE	EMENTED					
Title:	Thermistors (Resistors Thermally Sensitive), based on type 3K3A356					
Number:	4006/002 Issue: 3					
Other documen	ther documents affected:					
Page:						
See below						
Paragraph:	Paragraph:					
See below						
Original wording:						
As per ESCC 4006/002 Issue 2						
Proposed wording:						
This Detail Specification is totally reformatted as part of the ongoing process of converting legacy ESA/SCC Specifications to the ESCC format. See below and attached ESCC 4006/002 Draft 3B.						
Note: there is known support for this specification (which currently contains one Type Variant, Variant 01, Based on Type 4K3A356) from Manufacturer Measurement Specialties of Ireland [MEAS Ireland (Betatherm) Ltd].						
Summary of the proposed changes to the current format, layout and content as follows:						
1) Title Page: deg.C added to minimum temperature for clarification.						
2) Para. 1.1, Scope, is re-written with the standard wording for the Scope Para. in converted ESCC Detail Specifications.						
3) Para. 1.2, Type Variants This Para. is deleted and replaced by Component Type Variants and Range of Components. The Type Variants Table is incorporated into this Para.						
4) Para. 1.3, Maximum Ratings, is re-written with the standard wording for the Maximum Ratings Para. in converted ESCC Detail Specifications. The Maximum Ratings table is incorporated into this Para.						
5) Para. 1.4, Parameter Derating Information This Para. is unnecessary and is therefore deleted.						
6) Para. 1.5, Physical Dimensions The original wording is deleted. The Physical Dimensions Figure, Table of Dimensions and Notes are incorporated into this						

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Para.					
7) Para. 1.6, Functional Diagram The original wording is deleted. The Functional Diagram is incorporated into this Para.					
8) Para. 2, Applicable Documents IEC Publication No. 60410 is not used in the ESCC System and therefore this Para. is updated accordingly.					
<ul> <li>9) Table 1(a) - Type Variants</li> <li>The table is included in Para. 1.4.2, Component Type Variants and Range of Components, with modifications to bring it into line with the ESCC format for Detail Specifications:</li> <li>Column numbers are deleted.</li> <li>Weight max (g) column is added.</li> <li>The RZ and Resistance/Temperature Characteristics columns are combined, with NOM. (Ohm) replaced by RZ (Ohm).</li> </ul>					
<ul> <li>10) Table 1(b) - Maximum Ratings</li> <li>The table is included in Para. 1.5, Maximum Ratings, with modifications to bring it into line with the ESCC format for Detail Specifications:</li> <li>The first column is unnecessary and is therefore deleted.</li> <li>Note 2 is re-worded See Component Type Variants and Range of Components, as the minimum and maximum operating temperatures of the Variant are now defined (within the table) in that Para.</li> <li>Note 3 is re-worded - the maximum operating temperature, as mentioned above, is defined in the table within the Component Type Variants and Range of Components Para.</li> </ul>					
11) Figure 1 is deleted.					
<ul> <li>12) Figure 2 - Physical Dimensions</li> <li>Figure 2 is deleted and its content moved to Para. 1.6, Physical Dimensions.</li> <li>The figure is modified to illustrate, and include reference to, Note 1.</li> <li>Note 2 only contains redundant information and is therefore deleted.</li> </ul>					
13) Figure 3 - Functional Diagram Figure 3 is deleted and its content moved to Para. 1.7, Functional Diagram.					
14) Para. 4.1, General, is re-written with the standard wording for the General Requirements Para. in converted ESCC Detail Specifications.					
<ul><li>15) Para. 4.2 and Subparagraphs, Deviations from Generic Specification</li><li>Revised in order to meet the new format for ESCC Generic Specifications.</li><li>Due to the revision to Thermal Shock in the Generic Specification the deviation to Thermal Shock is no longer a deviation, and therefore the conditions and requirements for the Thermal Shock test are included in a new Para. titled Thermal Shock.</li></ul>					
16) Para. 4.3.1, Dimension Check, is not required for the new ESCC format Detail Specification and is deleted accordingly.					



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17) Para. 4.3.2, Weight, is deleted to avoid repetition (per the new ESCC format, there is now a Weight max (g) column in the Component Type Variants and Range of Components table).					
18) Para. 4.3.3, Terminal Strength Due to the new format for the Generic Specification, the following changes are made to the wording:					

The requirements for terminal strength testing are specified in Para. 9.13 of ESCC Generic Specification No. 4006. The test conditions shall be as follows:- is replaced by The test conditions for Terminal Strength, tested as specified in the Generic Specification, shall be as follows:.

19) Para. 4.4, Materials and Finishes The text of this paragraph is no longer necessary and is therefore deleted.

20) Subparagraph 4.4.1, Case Re-named Body for correctness.

21) Para. 4.5 and Subparagraphs, Marking

Revised in order to meet the new format for ESCC Generic Specifications.

Subparagraph 4.5.2, The ESCC Component Number, is now a Subparagraph of Para. 1.4, The ESCC Component Number and Component Type Variants, with the wording and marked deleted accordingly.

22) Para. 4.6, Electrical Measurements, is re-named Electrical Measurements at Room, High and Low Temperatures and the clause Electrical measurements shall be performed at room, high and low temperatures. is added for clearness and consistency.

23) Para. 4.6.1, Electrical Measurements at Room Temperature

Re-named Room Temperature Electrical Measurements and first sentence (referring to Table 2) deleted in order to meet the standard wording for this Para. in converted ESCC Detail Specifications.

A table detailing the required room temperature electrical measurements and associated Notes (formerly Table 2) are added.

24) Para. 4.6.2, Electrical Measurements at High and Low Temperatures

Re-named High and Low Temperatures Electrical Measurements and first sentence (referring to Table 3) deleted in order to meet the standard wording for this Para. in converted ESCC Detail Specifications.

A table detailing the required high and low temperatures electrical measurements and associated Notes (formerly Table 3) are added.

Due to the changes made to Table 3, the clause The temperature tolerance shall be +/-0.01 deg.C is re-written The measurements shall be performed at each applicable temperature (with a tolerance of +/-0.01 deg.C) specified in Component Type Variants and Range of Components..

25) Para. 4.6.3, Circuits for Electrical Measurements (Figure 4), is not required for the new ESCC format Detail Specification and is deleted accordingly.

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<ul> <li>26) Para. 4.7 and Subparagraphs, Burn-in Tests</li> <li>Revised in order to meet the new format for ESCC Generic Specifications.</li> <li>Subparagraph 4.7.1, Parameter Drift Values, includes a table of the relevant drift value limits and absolute limits.</li> <li>Subparagraph 4.7.2, Conditions for Burn-in, is amended to include Table 5.</li> <li>Subparagraph 4.7.3, Electrical Circuits for Burn-in (Figure 5), is not required for the new ESCC format Detail Specification and is deleted accordingly.</li> </ul>					
<ul> <li>27) Table 2 - Electrical Measurements at Room Temperature</li> <li>This table is moved to Para. 2.5.1, Room Temperature Electrical Measurements, with modifications to bring it into line with the ESCC format for Detail Specifications:</li> <li>The first column is unnecessary and is therefore deleted.</li> <li>The ESCC 4006 Test Method and Conditions column is re-named Test Method and Conditions and 4006 Paragraph references are replaced by ESCC No. 4006.</li> <li>Note 1 is re-worded to See Component Type Variants and Range of Components for resistance values and tolerances</li> <li>The Note on sampling, Note 2, is amended to include specific sampling (IEC 60410 is not used as the reference document for sampling within the ESCC System).</li> <li>Note 3 is re-worded, with reference to Production Control Tests instead of Chart II.</li> </ul>					
<ul> <li>28) Table 3 - Electrical Measurements at High and Low Temperatures</li> <li>This table is moved to Para. 2.5.2, High and Low Temperatures Electrical Measurements, with modifications to bring it into line with the ESCC format for Detail Specifications:</li> <li>The first column is unnecessary and is therefore deleted.</li> <li>The ESCC 4006 Test Method and Conditions column is re-named Test Method and Conditions and the Zero Power</li> <li>Resistance test method and conditions, Para. 9.3.1.1 At each specified temperature, over operating range is amended to ESCC No. 4006 (see also 24 above).</li> <li>Note 1 is re-worded to See Component Type Variants and Range of Components for resistance values and tolerances</li> </ul>					
29) Figure 4 is delete	d.				
30) Table 4 - Parame This table is moved to Detail Specifications: The first column is u Change is deleted fr The Symbol is amen The Test Method an The absolute limits a values and tolerance	eter Drift Values o Para. 2.6, Pa nnecessary and om the Charac ded. d Conditions co and correspond s. are added.	s rameter Drift Values, wit d is therefore deleted. teristic. olumn is not required and ing Note See Componer	h modifications to bring I is deleted accordingly It Type Variants and R	g it into line with the ESCC format for y. ange of Components for resistance	
31) Table 5 - Condition This table is moved to Specifications: The first column is u	ons for Burn-in o Para. 2.8, Bu nnecessary and	and Operating Life Tests rn-in Conditions, with mo d is therefore deleted.	s odifications to bring it ir	nto line with the ESCC format for Detail	



Attachments:
4006002_draft_3b.pdf, null
Modifications:
N/A
Approval signature:
R.C. flaring
Date signed:
2013-12-05