



# DOCUMENT CHANGE REQUEST

DCR number 293

Changes required for: N/A

Originator: Petra Schumacher

Date: 2006/10/16

Date sent: 2006/10/16

Organisation: DLR

Status: IMPLEMENTED

Title: Resistors, Fixed, Surface Mount Film, Non-Hermetically Sealed, Based on Type MS1

Number: 4001/022

Issue: 1

Other documents affected:

Page:

Para. 4.5.2, page 10 and Table 1(a), page 6

Paragraph:

Para. 4.5.2, page 10 and Table 1(a), page 6

Original wording:

Proposed wording:

Table 1(a) shall be replaced by the table attached.

Para.4.5: Variant -01 is mandatory

Justification:

Table 1(a):

- a. The minimum resistance value available in the range indicated by row 3 in E96 is 2.21 ohms and not 2.2 ohms! If a 2.2 ohm resistor is required it needs to be selected and is formally not covered by qualification.
- b. Deletion of numbering of the rows in this table , as it causes always confusion, because some interpret this not as a row but as a variant number. However the manufacturer never delivered other "variants" than -01. Even if ordered, the CoC will refer to -01. So it is recommended to add to the title of the column "Variant" (Variant No.), keep -01 as variant and delete the row

The part numbering is unique, even without these row numbers, e.g.

the available resistance range for 1% resistors with TK50 is 2.21ohms to 5.11Mohms, while the range for 0.1% and TK50 resistors is 43.2Ohm to 1Mohm.

Para. 4.5.2 just to harmonise with table 1(a)

The modifications have been already discussed with the manufacturer.

Attachments:

ESCC4001022\_table1modified.pdf, null

Modifications:

Do not include the a Variant number column Table 1(a) (as proposed in the DCR) nor to add an additional note to para 4.5.

Approval signature:

A handwritten signature in black ink, appearing to read "A. G. Swales". The signature is written in a cursive style with a prominent initial "A".

Date signed:

2006-10-16

**TABLE 1(a) - RANGE OF COMPONENTS**

VARIANT No.	Resistance Range (Note 1)		Tolerance (±%)	Value Series	Temperature Coefficient (±10 <sup>-6</sup> /°C)
	MIN. (Ω)	MAX. (MΩ)			
- 01	43.2	1.0	0.1	E96	50
<del>02</del>	10.0	1.0	0.5	E96	50
03	2.24	5.11	1.0	E96	50
<del>04</del>	43.2	1.0	0.1	E96	25
<del>05</del>	10.0	1.0	0.5	E96	25
<del>06</del>	10.0	1.0	1.0	E96	25
07	43.2	0.221	0.1	E96	15
<del>08</del>	10.0	0.511	0.5	E96	15

**NOTES**

1. Critical resistance = 160 000Ω