



DOCUMENTATION CHANGE REQUEST

TO BE COMPLETED BY ORIGINATOR

Change request No. (4)

130529 CHPFR

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Originator (1)
N. MARTINI
Affiliation
VISHAY S.A.

Originator signature (2)
Date :
29/05/2013

NSA or ESA representative signature (3)
Date

DOCUMENT AFFECTED

Other documents affected

Doc. No. (6) Status (7) Title (8)
ESCC4001 /026 Issue 4 **RESISTOR, FIXED, CHIP, THICK FILM BASED ON TYPE CHP**

Paragraph(s) and page(s) affected (9) **SEE Proposed wording of change**

PROPOSED WORDING OF CHANGE

- a) In Paragraph 1.4.1 The ESCC Component Number
Add for CHPFR variants (11 to 20) in the same spirit that already done in ESCC4001/023
An example of codification 400026112490RF4 with all details below ...
- b) In Paragraph 1.4.2 Component Type Variants ...
_ Add variants 11 to 20 as below.
- c) In Paragraphs 1.5 Maximum Ratings & 1.6 Physical Dimensions
Add variants 11 to 20 in the curret tables as below.
- d) In Paragraph 2.4 Robustness of Terminations...
Add variants 11 to 20 as described below.

Continuation sheet
 Yes No

JUSTIFICATION

Introduction of CHPFR variants. Variants with Failure Rate Level according to ESCC26000.

Continuation sheet
 Yes No

Changes required for :

Procurement (project)
General Improvement of Spec.

Qualification
Other

MRB decision

(13)

RESERVED FOR USE BY SCC SECRETARIAT

Date of registration :

Order of Priority for Appr. / Impl. : 1 (high) 2 (medium) 3 (high)

Attachments :

Qualification Status : Qualified In process of qualification

RESERVED FOR USE BY APPROVING AUTHORITY

Approved

Yes No

Date and signature

Reference to SCCG decision

Priority

Approved wording if different from box 11 or reason for rejection

(14)

Continuation sheet
 Yes No



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CONTINUATION SHEET FOR BOX [11]

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Proposed wording of change and justification

e) In Paragraph 2.7 Intermediate and End-point...

Add variants 11 to 20 for Operating Life as described below.

f) In Appendix Agreed Deviation For VISHAY S.A. Division Sfernice (F)

Add in the table below

See details of change in attachment document "Attachment to DCR 130529 CHPFR introduction"

Attachment to DCR 130529 CHPFR introduction

ESCC detail specification 4001/026 Issue 4.

1) Editorial Changes.

a) In Paragraph 1.4.1 The ESCC Component Number

Add for CHPFR variants (11 to 20) in the same spirit that already done in ESCC4001/023

An example of codification [400026112490RF4](#) with all details below ...

b) In Paragraph 1.4.2 Component Type Variants ...

_ Add variants 11 to 20 as below.

Variant Number	Style (Note 1)	Resistance Range R _n (Note 2)		Tolerance (± %) (Note 2)	Temperature Coefficient TC (±10 ⁻⁶ /°C) (Note 2)	Critical Resistance (kΩ)	Terminal Material and Finish	Weight max (g)
		Min (Ω)	Max (MΩ)					
11	0603	1	10	1, 2, 5	100, 200	25	E4	0.002
12	0805	1	10	1, 2, 5	100, 200	50	E4	0.004
13	1206	1	10	1, 2, 5	100, 200	160	E4	0.008
14	2010	1	10	1, 2, 5	100, 200	180	E4	0.026
15	2512	1	10	1, 2, 5	100, 200	112.5	E4	0.042
16	0603	1	10	1, 2, 5	100, 200	25	E2	0.002
17	0805	1	10	1, 2, 5	100, 200	50	E2	0.004
18	1206	1	10	1, 2, 5	100, 200	160	E2	0.008
19	2010	1	10	1, 2, 5	100, 200	180	E2	0.026
20	2512	1	10	1, 2, 5	100, 200	112.5	E2	0.042

_ Delete the note 2.

c) In Paragraphs 1.5 Maximum Ratings & 1.6 Physical Dimensions

Add variants 11 to 20 in the current tables as below.

01, 06	→	01, 06, 11, 16
02, 07	→	02, 07, 12, 17
03, 08	→	03, 08, 13, 18
04, 09	→	04, 09, 14, 19
05, 10	→	05, 10, 15, 20

d) In Paragraph 2.4 Robustness of Terminations...

Add variants 11 to 20 as described below.

Number of bends: 10.

Deflection: 2mm (Variants 01, 02, 03, 06, 07, 08) 11, 12, 13, 16, 17, 18
 1mm (Variants 04, 05, 09, 10) 14, 15, 19, 20

Duration: 5±1s

2) Technical changes

a) In Paragraph 2.7 Intermediate and End-point...

Add variants 11 to 20 for Operating Life as described below.

Operating Life				
Initial Measurement (0 hour)	Resistance	R_A	Record Values	
Intermediate Measurements (1000 hours)	Change in Resistance	$\Delta R_A/R_A$		%
	Variants 01 to 10		$\pm(1 + 0.05\Omega \times 100/R_n)$	
	Variants 11 to 20		$\pm(1.5 + 0.05\Omega \times 100/R_n)$	
Intermediate/ Final Measurements (2000 hours)	Change in Resistance	$\Delta R_A/R_A$		%
	Variants 01 to 10		$\pm(1.5 + 0.05\Omega \times 100/R_n)$	
	Variants 11 to 20		$\pm(2.5 + 0.05\Omega \times 100/R_n)$	
	Insulation Resistance ($V_T=100V$)	R_I	1000 -	M Ω
Final Measurements (8000 hours) (Note 1)	Change in Resistance	$\Delta R_A/R_A$	$\pm(5 + 0.05\Omega \times 100/R_n)$	%

With the note (1) [Applicable to Failure Rate Endurance Testing only.](#)

b) In Appendix Agreed Deviation For VISHAY S.A. Division Sfernice (F)

Add in the table below

Items Affected	Description of Deviations
Deviations from Generic Specification:	
Production Control (Chart F2)	Para. 5.2.1, Dimension Check: Guaranteed but not tested.
Qualification and Periodic Tests (Chart F4)	Para. 8.1, Permanence of Marking: Not applicable.
Deviations from Generic Specification:	For Variants 11 to 20, when failure rate level qualification approval in accordance with ESCC Basic specification No. 26000 has been granted,

Screening Test (Chart F3)	<p>the following deviations shall apply.</p> <p>Para. 8.1 (& Para. 2.3 herein), Overload: Resistance and Change in Resistance shall be measured on a GONOGO basis, in accordance with Room Temperature Electrical Measurements in the Detail Specification, both before and after the test.</p> <p>Para. 8.4 (& Para. 2.8 herein), Burn-in: Not applicable.</p>
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