

		<b>APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL</b>			Page 1
		Component Title: Resistors, fixed, surface mount, film, non-hermetically sealed based on type MS1 Executive Member: DLR		Date: 02/10/2015	Appl. No. 256 H
Components (including series and families) submitted for Extension of Qualification Approval:					1
ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
4001/022	01	all	MS1 ESA	4001/022-01	
Component Manufacturer Vishay Electronic GmbH		Location of Manufacturing Plant(s) Dr.-Felix-Zandman-Platz 1 D-95100 Selb Germany		Date of original qualification approval: Date: Oktober 1999 Certificate Ref No. 256	
ESCC Specifications used for Maintenance of qualification testing: Generic: 4001 Issue: 4 Detail(s): 4001/022 Issue: 4		Deviations to LVT testing and Detail Specification used: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (supply details in Box 15) Deviation from current Specifications: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (Supply details)		Qualification Extension Report reference and date: Report – Periodic Tests No. 256G/15/024 18.09.2015	
Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first)					8
Project Name	Testing Level	LAT	Date code	Quantity Delivered	
PID changes since start of qualification None <input type="checkbox"/> Minor* <input checked="" type="checkbox"/> Major* <input type="checkbox"/>		*Provide details in box: e.g. Manufact. Org. Chapt. 2.2 updated		Current PID Verified by: Joomann Name of Executive Representative Ref No: PID 142210 ESA Issue: 3 Rev. A Rev Date: 05/05/2014 Date: 28/05/2014	
Current Manufacturing facilities surveyed by: Joomann on 27/05/2014 (Name of Executive Representative) (Date)					11
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain					
Report Reference: <u>ESCC Audit Report Vishay 2014.pdf</u>					



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Resistors, fixed, surface mount, film, non-hermetically sealed based on type MS1

Executive Member: DLR

Date: 02/10/2015

Page 2

Appl. No.

256 H

12

Failure Analysis, DPA, NCCS available: Yes  No  (Supply data)

Ref. No's and purposes:

13

The undersigned hereby certifies on behalf of the ESCC Executive - that the above information is correct; - that the appropriate documentation has been evaluated; - that full compliance to all ESCC requirements is evidence (except as stated in box 15); - that the reports and data are available at the ESCC Executive and therefore applies on behalf of DLR as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein.

i.A. Guido Joormann

(Signature of the Executive Coordinator)

Date: 02/10/2015

14

Continuation of Boxes above:



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Resistors, fixed, surface mount, film, non-hermetically sealed based on type MS1

Executive Member: DLR

Date: 02/10/2015

Page 3

Appl. No.

256 H

Non compliance to ESCC requirements:

15

No.:	Specification	Paragraph	Non compliance

Additional tasks required to achieve full compliance for ESCC qualification or rationale for acceptability of noncompliance:

16

Executive Manager Disposition

17

Application Approval: Yes  No

Action / Remarks:

Date:

Signature, ESA Representative



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

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Executive Member: DLR

Date: 02/10/2015

Page 4

Appl. No.

256 H

ANNEX 1: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION

18

Tests conducted in compliance with:

- ESCC 4001 generic specification; Chart F4 (for ESCC/QPL parts);
- or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

4001022017R15F3	4001022019093F3
4001022018662F3	

Detail Specification reference:

Chart F4	Test	Tick when done	Conditions	Date Code <i>1517</i>	Tested Qty	N° of Rejects	Comments if not performed. Comments on Rejection
Environmental/ Mechanical Subgroup	Mounting	<input checked="" type="checkbox"/>	IEC 60115-1 clause 4.31	29.06.15	15	0	
	Rapid Change Of Temperature	<input checked="" type="checkbox"/>	IEC 60068-2-14	01.07.15	15	0	
	Vibration	<input type="checkbox"/>	IEC 60068-2-6				N/A
	Climatic test Sequence	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.10	28.07.15	15	0	
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				N/A
	Mounting	<input checked="" type="checkbox"/>	IEC 60115-1 clause 4.31	29.06.15	6	0	
	Robustness of Terminations	<input checked="" type="checkbox"/>	IEC 60068-2-21	29.06.15	6	0	
	Climatic test Sequence	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.10	28.07.15	6	0	
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				N/A
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	IEC 60068-2-20	30.06.15	6	0	
	Mounting	<input checked="" type="checkbox"/>	IEC 60115-1 clause 4.31	20.07.15	6	0	
	Climatic test Sequence	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.10	28.07.15	6	0	
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				N/A
	Mounting	<input type="checkbox"/>	IEC 60115-1 clause 4.31				
Endurance Subgroup	Insulation Resistance	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.3.1.2	27.08.15	15	0	
	Voltage Proof	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.3.1.3	27.08.15	15	0	
	Mounting	<input checked="" type="checkbox"/>	IEC 60115-1 clause 4.31	10.06.15	15	0	
Assembly Capability Subgroup	Operating Life	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.13	02.09.15	15	0	
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				N/A
	Solderability	<input checked="" type="checkbox"/>	IEC 60068-2-20	30.06.15	6	0	
	Permanence of marking	<input checked="" type="checkbox"/>	ESCC 24800	01.07.15	6	0	
Additional Tests	Operating Life	<input type="checkbox"/>	ESCC 4001, Para 8.13				N/A
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				N/A
		<input type="checkbox"/>					



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Page 6

Appl. No.

256 H

NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL

ENTRIES

Form heading	shall indicate: - the title of the component as given in its detail specification or the name of the series, family; - the Executive Member; - the entering date; - the certificate number and its sequential suffix.
Box 1	shall provide details given in the table; in particular there shall be listed: - the variants or range of variants; - the range of components (the ESCC code is recommended to indicate the values or values range, the tolerance, the voltage, etc); the designation given in the detail specification as 'base on'; - under Test Vehicle enter either an ESCC code or the specific characteristic capable of identifying the component tested (e.g., voltage of coil for a relay); - under component similar enter a cross if relevant.
Box 2; 3 and 4	As per QPL entry; otherwise, an explanation of the changes must be supplied.
Box 5	Will show the ESCC Generic and Detail specifications, including issue number and revision letter, current at the time the tests reported were performed. If the specifications are different from those current on the date of the application, see Box 6.
Box 6	Will show the deviations from the Generic and Detail Specifications listed in Box 5, in particular deviations from testing. In case of deviations this must be listed in Box 15. In case the referenced specification in Box 5 have currently a different issue and/or revision indicate also whether the test data deviates or not from such current documents.
Box 7	Must reference the report(s) supplied in support of the application.
Box 8	Should provide the details of procurement to the full ESCC System, documentation of all of which should already have been delivered to the ESCC Executive under the terms of the relevant Generic Specification. An appropriate table has been drawn in this box.
Box 9	If the PID evolved after the Original Qualification or after the last Extension of Qualification, adequate details of such evolution shall be provided together with the reasons for the changes. Major changes shall be clearly marked.
Box 10	Identify the current PID issue status, date and actual date of verification. The date of verification of the current PID should be arranged as close as possible to the required date of extension.
Box 11	This box can be completed only after a physical visit to the plant to confirm that no unexplained changes occurred and that the practices, procedures, material, etc. used in manufacturing the components are as described in the PID. This survey shall be carried out in accordance with the requirements of ESCC Basic Specification No. 20200 and its findings shall be recorded.
Box 12	Provide details of, or reference to, any Destructive Physical Analysis (DPA) and Failure Analysis reports as well as any Nonconformance(s) (NCCS) occurred during the qualification validity period, stating if established corrective action have produced satisfactory results.
Box 13	Enter only the name of the Executive Member (i.e., CNES, DLR, ESTEC, etc.) and the signature of the responsible Executive Coordinator.
Box 14	To be used when there is a need to expand any of the boxes from 1 through 12. Identify box affected and reference the Box 14 in the relevant Box. Box 14 can be broken into 14a, 14b, etc. if several boxes have to be expanded.
Box 15	Fill in Table as requested.
Box 16	Any additional action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted by the ESCC Executive should be listed herein or the reason(s) to accept the noncompliance.
Box 17	All Executive Manager recommendations on the application itself, special conditions or restrictions, modifications of the QPL or QML entry, letters to the manufacturer, etc. shall be entered clearly in Box 19, signed by the representative for ESA, and dated.
Box 18	Fill in Table as requested.
Box 19	Confidential Details of PID changes including those of a confidential nature, shall be provided.
Box 20	State noncompliance with reference to specification(s) and paragraph(s). To simplify reference in Box 16 each nonconformance shall be sequentially numbered. If relevant state 'None'.
Box 21	Any additional action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted by the ESCC Executive should be listed herein or the reason(s) to accept the noncompliance.
Box 22	Additional Comments.