



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: RESISTOR, FIXED, SURFACE MOUNT, THIN FILM, NONHERMETICALLY SEALED BASED ON TYPE TNPS
 Executive Member: DLR Date: 28/05/2015

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 Appl. No. 289C

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
4001/029	1-3	all	TNPS 0603 TNPS 0805 TNPS 1206	4001/ 029-01 4001 /029-02 4001 /029-03	

Component Manufacturer Vishay Electronic GmbH	2	Location of Manufacturing Plant(s) Dr.-Felix-Zandman-Platz 1 D-95100 Selb Germany	3	Date of original qualification approval: Date: 01/05/2009 Certificate Ref No. 289	4
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ESCC Specifications used for Maintenance of qualification testing: Generic: 4001 Issue: 4 Detail(s): 4001/029 Issue: 3	5	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)	6	Qualification Extension Report reference and date: Report – Periodic Tests No. 289/15/024 08.08.2015	7
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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: Revised acc. 4001 iss.3 + editorial changes	9	Current PID Verified by: <u>Joormann</u> Name of Executive Representative Ref No: PID 145455 ESA Issue: 2 Rev. A Date: 28/05/2014 Rev Date: 05/05/2014	10
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Current Manufacturing facilities surveyed by: <u>Joormann</u> on <u>27/05/2014</u> (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>	



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

Ref. No's and purposes:

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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.

Date: 29/05/2015

i.A. Hans-Dieter Herrmann
(Signature of the Executive Coordinator)

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Continuation of Boxes above:



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Non compliance to ESCC requirements:

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No.:	Specification	Paragraph	Non compliance

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

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Executive Manager Disposition

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Application Approval: Yes No

Action / Remarks:

Date:

Signature, ESA Representative



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

Tests conducted in compliance with:

- ESCC 4001 generic specification; Chart F4 (for ESCC/QPL parts);
- or PID-TFD PID 145455 TNPS Issue2 RevA (for ESCC/QML parts)

Tests vehicle identification/description:

TNSP0603 24R B1; 56K2 B2; 211K B1	TNSP0605 10R B1; 180K B1; 422K B1
TNPS1206 10R B1; 430K B1; 1M0 B1	

Detail Specification reference: 4001/029-01, -02, -03

Chart F4	Test	Tick when done	Conditions	Date Code	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	1505	5	0	Each type
	Rapid Change Of Temperature	<input checked="" type="checkbox"/>	IEC 60068-2-14	1505	5	0	Each type
	Vibration	<input checked="" type="checkbox"/>	IEC 60068-2-6	1505	5	0	Each type
	Climatic test Sequence	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.10	1505	5	0	Each type
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Mounting	<input checked="" type="checkbox"/>	IEC 60115-1 clause 4.31	1505	5	0	Each type
	Robustness of Terminations	<input checked="" type="checkbox"/>	IEC 60068-2-21	1505	2	0	Each type
	Climatic test Sequence	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.10	1505	2	0	Each type
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	IEC 60068-2-20	1505	2	0	Each type
	Mounting	<input type="checkbox"/>	IEC 60115-1 clause 4.31	1505			
	Climatic test Sequence	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.10	1505	2	0	Each type
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	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	1505	5	0
Voltage Proof		<input checked="" type="checkbox"/>	ESCC 4001, Para 8.3.1.3	1505	5	0	Each type
Mounting		<input checked="" type="checkbox"/>	IEC 60115-1 clause 4.31	1505	5	0	Each type
Assembly Capability Subgroup	Operating Life	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.13	1505	5	0	Each type
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Solderability	<input checked="" type="checkbox"/>	IEC 60068-2-20	1505	2	0	Each type
	Permanence of marking	<input checked="" type="checkbox"/>	ESCC 24800	1505	2	0	Each type
Additional Tests	Operating Life	<input type="checkbox"/>	ESCC 4001, Para 8.13				SEE ABOVE
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				N/A
		<input type="checkbox"/>					