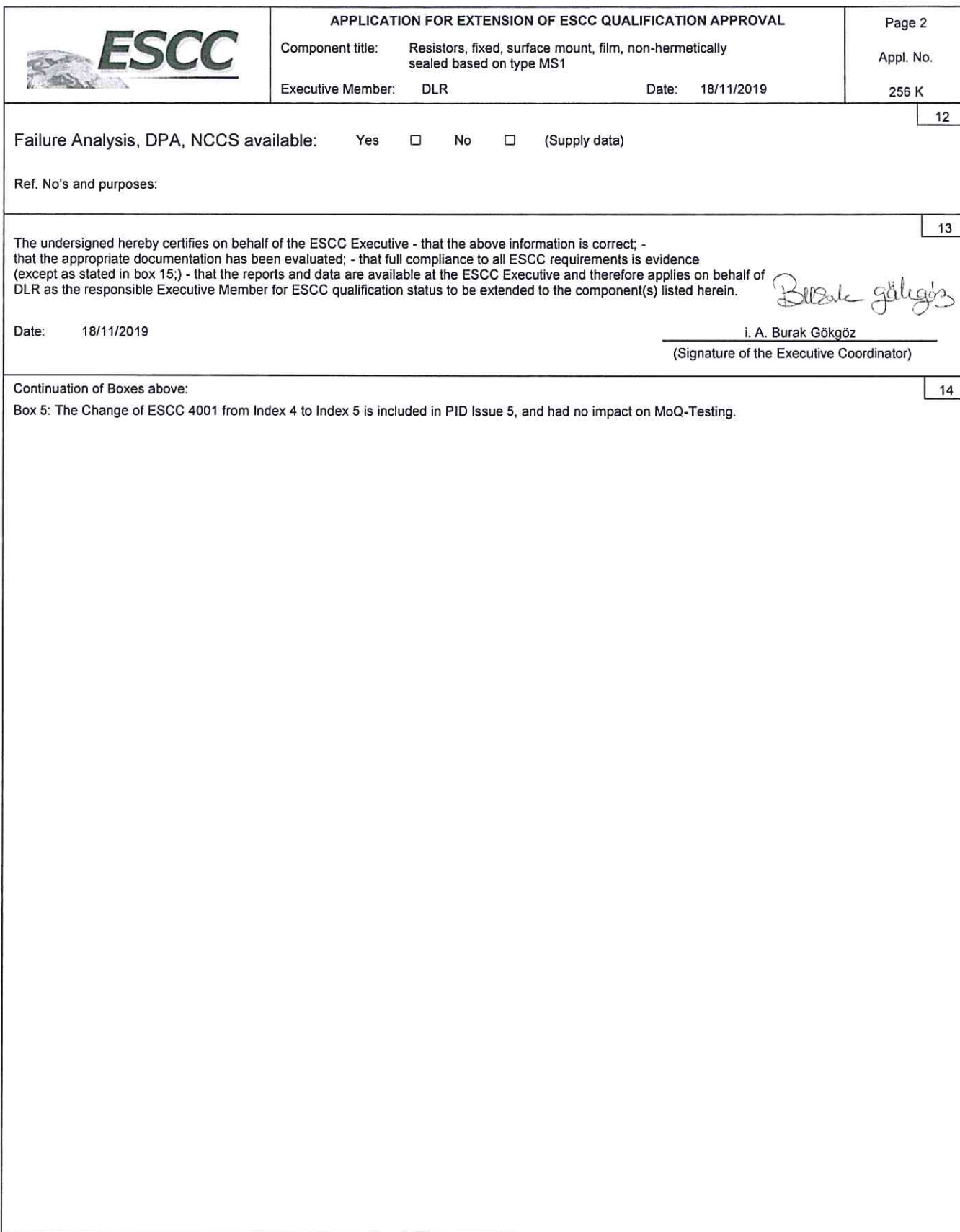
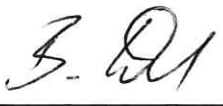


		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL			Page 1 Appl. No. 256 K
Component Title: Resistors, fixed, surface mount, film, non-hermetically sealed based on type MS1		Executive Member: DLR			Date: 18/11/2019
1					
Components (including series and families) submitted for Extension of Qualification Approval:					
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: 01/10/1999 Certificate Ref No. 256	
2		3		4	
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 ☒ Yes ☐ (supply details in Box 15) Deviation from current Specifications: No ☒ Yes ☐ (Supply details)		Qualification Extension Report reference and date: Report – Periodic Tests Report No. 256H/17/024 09.09.2019	
5		6		7	
8					
Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first)					
Project Name	Testing Level	LAT	Date code	Quantity Delivered	
				See attached files: List of shipped MS1_Period September 2017 to August 2018 142210 ESA List of shipped MS1_Period September 2018 to August 2019	
PID changes since start of qualification None ☐ Minor* ☒ Major* ☐ *Provide details in box: Annex 2 – box 19		Current PID Verified by: DLR Ref No: 142210 ESA Issue: 5 Rev Date: 15/11/2019		Name of Agency Representative Date: 31/10/2019	
9		10		11	
Current Manufacturing facilities surveyed by: DLR on 26/06/2019 (Name of Agency Representative) (Date)					
Satisfactory: Yes ☒ No ☐ Explain					
Report Reference: VIS-AUD-2019					



	APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL	Page 3
	Component title: Resistors, fixed, surface mount, film, non-hermetically sealed based on type MS1 Executive Member: DLR	Date: 18/11/2019 Appl. No. 256 K
Non compliance to ESCC requirements:		
No.:	Specification	Paragraph
Non compliance		
Additional tasks required to achieve full compliance for ESCC qualification or rationale for acceptability of noncompliance:		
Executive Manager Disposition		
Application Approval: Yes ☒ No ☐		
Action / Remarks:		
Date:		
 B. Schade: Head of ESA Product Assurance and Safety Department		



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: 18/11/2019

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Appl. No.

256 K

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

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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:

MS1 140R B2, 110K B2, 2M15 F3	

Detail Specification reference: ESCC 4001-022, Issue 4

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	☒	IEC 60115-1 clause 4.31		15	0	
	Rapid Change Of Temperature	☒	IEC 60068-2-14		15	0	Not applicable, but done additionally for informational purpose
	Vibration	☐	IEC 60068-2-6		N/A		
	Climatic test Sequence	☒	ESCC 4001, Para 8.10		15	0	
	Seal Test	☐	IEC 60068-2-17		N/A		
	Mounting	☒	IEC 60115-1 clause 4.31		6	0	
	Robustness of Terminations	☒	IEC 60068-2-21		6	0	
	Climatic test Sequence	☒	ESCC 4001, Para 8.10		6	0	
	Seal Test	☐	IEC 60068-2-17		N/A		
	Resistance to Soldering Heat	☒	IEC 60068-2-20		6	0	
	Mounting	☒	IEC 60115-1 clause 4.31		6	0	
	Climatic test Sequence	☒	ESCC 4001, Para 8.10		6	0	
	Seal Test	☐	IEC 60068-2-17		N/A		
	Mounting	☐	IEC 60115-1 clause 4.31		N/A		
	Insulation Resistance	☒	ESCC 4001, Para 8.3.1.2		6	0	
	Voltage Proof	☒	ESCC 4001, Para 8.3.1.3		6	0	
Endurance Subgroup	Mounting	☒	IEC 60115-1 clause 4.31		15	0	
	Operating Life	☒	ESCC 4001, Para 8.13		15	0	
	Seal Test	☐	IEC 60068-2-17		N/A		
Assembly Capability Subgroup	Solderability	☒	IEC 60068-2-20		6	0	
	Permanence of marking	☒	ESCC 24800		6	0	
	Operating Life	☐	ESCC 4001, Para 8.13		N/A		Failure Rate Endurance Testing (8000h) not requested
	Seal Test	☐	IEC 60068-2-17		N/A		
Additional Tests		☐					
		☐					
		☐					

Remark: Tested Quantity of 15 pieces refers to 3 different R-values (low, medium high) = 3 test lots with 5 pieces tested per test lot.
Tested Quantity of 6 pieces refers to 3 different R-values (low, medium high) = 3 test lots with 2 pieces tested per test lot.

