





<div></div>		<div>APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL</div> <div>Component Title: RESISTOR, FIXED, CHIP, METAL FOIL BASED ON TYPE SMP-PW, SMS-PW, SMT-PW according to ESCC Det. Spec. 4001/027 respectively BASED ON TYPE SMR-PW, SMV-PW according to ESCC Det. Spec.4001/028</div> <div>Executive Member: German Space Agency at DLR      Date: 16/12/2025</div>			<div>Page 1</div> <div>Appl. No.</div> <div>285 H Rev. 2</div>	
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
4001/027		01 05 02 02 06		SMP-PW (2010) SMS-PW (2512) SMS-PW (2512) SMS-PW (2512) SMT-PW (2817)	SMP-R470-1.0-PW SMS-R005-1.0-PW SMS-R030-1.0-PW SMS-1R00-1.0-PW SMT-R005-1.0-PW	Variant 03 SMT-PW (2817) Variant 04 SMP-PW (2010)
4001/028		02 02 02		SMV-PW (4723) SMV-PW (4723) SMV-PW (4723)	SMV-R018-1.0-PW SMV-R039-0.5-PW SMV-R270-1.0-PW	Variant 01 SMR-PW (4723)
4001/027		07 07 07		SMT-PW (2817) SMT-PW (2817) SMT-PW (2817)	SMT-2R00-1.0-PW SMT-3R30-1.0-PW SMT-4R70-1.0-PW	
4001/027		01 01 01 02 02 02 03 03 03		SMP-PW (2010) SMP-PW (2010) SMP-PW (2010) SMS-PW (2512) SMS-PW (2512) SMS-PW (2512) SMT-PW (2817) SMT-PW (2817) SMT-PW (2817)	SMP-R010-0.5-PX SMP-R200-0.5-PX SMP-R560-0.5-PX SMS-R020-0.5-PX SMS-R039-0.5-PX SMS-R390-0.5-PX SMT-R004-0.5-PX SMT-R020-0.5-PX SMT-1R80-0.5-PX	
4001/028		02 02 02		SMV-PW (4723) SMV-PW (4723) SMV-PW (4723)	SMV-R015-1.0-PW SMV-R033-1.0-PW SMV-1R00-1.0-PW	
Component Manufacturer 2		Location of Manufacturing Plant(s) 3		Date of original qualification approval: 4		
Isabellenhütte Heusler GmbH & Co. KG		Eibacher Weg 3-5 34683 Dillenburg Germany		Date: 24/11/2008 Certificate Ref No. 285		
ESCC Specifications used for Maintenance of qualification testing: 5		Deviations to LVT testing and Detail Specification used: 6		Qualification Extension Report reference and date: 7		
Generic: 4001      Issue: 5 Detail(s): 4001/027      Issue: 9 4001/028      6		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> (supply details in Box 15) Deviation from current Specifications: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (Supply details)		1. Requalification Test Report 2024 Certificate 285 G, D-QM-20, 24/06/2024 2. Delta-Qualifiactin Test Report 2024 Certificate 285 H, 19/09/2024 3. Delta-Qualifiactin Test Report 2025 Certificate 285 H, D-IE-032 19/03/2025 4. Delta-Qualification Test Report 2025 Certificate 285 H, 25/09/2025		
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	
See Appendix: Confidential: Orders 01/01/2022 - 24/06/2024						
PID changes since start of qualification 9			Current PID Verified by: Burak Gökgöz, German Space Agency at DLR		10	
None <input type="checkbox"/> Minor* <input type="checkbox"/> Major* <input checked="" type="checkbox"/> *Provide details in box: See Appendix 2, Box 19			Ref No: D QS 010 / D QS 011 Issue: Iss. 10 (19/03/2025) / Iss. 11 (21/10/2025) Rev Date: 21.10.2025		Name of Excutive Representative Date: Click here to enter a date.	
Current Manufacturing facilities surveyed by: Burak Gökgöz, German Space Agency at DLR on 11/06/2024						
(Name of Executive Representative) (Date)						
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Expl ain						
Report Reference: ISA-AUD-DLR-JUN-2024 Issue 1 (Date: 25.06.2024)						

	<b>APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL</b>  Component title: <b>RESISTOR, FIXED, CHIP, METAL FOIL BASED ON TYPE SMP-PW, SMS-PW, SMT-PW according to ESCC Det. Spec. 4001/027 respectively BASED ON TYPE SMR-PW, SMV-PW according to ESCC Det. Spec.4001/028</b>  Executive Member: <b>German Space Agency at DLR</b> Date: <b>16/12/2025</b>	Page 2  Appl. No.  <b>285 H Rev. 2</b>
Failure Analysis, DPA, <b>NCCS</b> available:      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (Supply data)		12
Ref. No's and purposes:      NC1CISA501: suspicious internal solder joint in one part in one microsection. The other Chart F3 &F4 test are OK. Considered as a maverick. NCCS is closed.		
The undersigned hereby certifies on behalf of the ESCC <b>Executive</b> , 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 <b>Executive</b> and therefore applies for ESCC qualification status to be extended to the component(s) listed herein.		13
Date: <b>16/12/2025</b>	<div><div><div>Burak Gökgöz</div><div><small>Digital signiert von Burak Gökgöz DN: PostalCode=51147, O=Deutsches Zentrum fuer Luft- und Raumfahrt e. V. (DLR), STREET=Linder Höhe, S=Nordrhein-Westfalen, C=DE, CN=Burak Gökgöz, E=burak.goekgoez@dlr.de Grund: Ich bin der Verfasser dieses Dokuments Ort: Bonn Datum: 2025.12.18 10:33:41+01'00' Foxit PDF Editor Version: 14.0.1</small></div></div><div><b>i.A. Burak Gökgöz</b>  (Signature of the ESCC Executive Coordinator)</div></div>	
Continuation of Boxes above:		14

		<b>APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL</b>		Page 3
		Component title: <b>RESISTOR, FIXED, CHIP, METAL FOIL BASED ON TYPE SMP-PW, SMS-PW, SMT-PW according to ESCC Det. Spec. 4001/027 respectively BASED ON TYPE SMR-PW, SMV-PW according to ESCC Det. Spec.4001/028</b>		Appl. No.
		Executive Member: <b>German Space Agency at DLR</b>		Date: <b>16/12/2025</b> <b>285 H Rev. 2</b>
Non compliance to ESCC requirements:				15
No.:	Specification	Paragraph	Non compliance	
1				
Additional tasks required to achieve full compliance for ESCC qualification or rationale for acceptability of noncompliance:				16
Executive Manager Disposition				17
Application Approval:    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Action / Remarks:				
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div>           Date:    31/12/2025         </div> <div style="text-align: right;">             A. Zadeh: Head of the Avionics and EEE Division         </div> </div>				

**APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL**

Component Title: **RESISTOR, FIXED, CHIP, METAL FOIL BASED ON TYPE SMP-PW, SMS-PW, SMT-PW according to ESCC Det. Spec. 4001/027 respectively BASED ON TYPE SMR-PW, SMV-PW according to ESCC Det. Spec.4001/028**

Executive Member: **German Space Agency at DLR**

Date: **16/12/2025**

Page 4

Appl. No.

**285 H Rev. 2**

**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:

SMP-R470-1.0-PW SMS-R005-1.0-PW SMS-R030-1.0-PW SMS-1R00-1.0-PW SMT-R005-1.0-PW	S03 (17526) R45 (29645) R45 (29643) R41 (29625) S02 (17518)

Detail Specification reference: 4001/027 issue 8 Ex: three-digit code year letter R=2023 / S=2024 + week number

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	S03, R45, R45, R41, S02	5 x 15	0	
	Rapid Change Of Temperature	<input checked="" type="checkbox"/>	IEC 60068-2-14	S03, R45, R45, R41, S02	5 x 15	0	
	Vibration	<input checked="" type="checkbox"/>	IEC 60068-2-6	S03, R45, R45, R41, S02	5 x 15	0	
	Climatic test Sequence	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.10	S03, R45, R45, R41, S02	5 x 15	0	
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Mounting	<input type="checkbox"/>	IEC 60115-1 clause 4.31				
	Robustness of Terminations	<input type="checkbox"/>	IEC 60068-2-21				
	Climatic test Sequence	<input type="checkbox"/>	ESCC 4001, Para 8.10				
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	IEC 60068-2-20	S03, R45, R45, R41, S02	5 x 6	0	
	Mounting	<input checked="" type="checkbox"/>	IEC 60115-1 clause 4.31	S03, R45, R45, R41, S02	5 x 6	0	
	Climatic test Sequence	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.10	S03, R45, R45, R41, S02	5 x 6	0	
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Mounting	<input type="checkbox"/>	IEC 60115-1 clause 4.31				
	Insulation Resistance	<input type="checkbox"/>	ESCC 4001, Para 8.3.1.2				
	Voltage Proof	<input type="checkbox"/>	ESCC 4001, Para 8.3.1.3				
Endurance Subgroup	Mounting	<input checked="" type="checkbox"/>	IEC 60115-1 clause 4.31	S03, R45, R45, R41, S02	5 x 15	0	
	Operating Life	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.13	S03, R45, R45, R41, S02	5 x 15	0	
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
Assembly Capability Subgroup	Solderability	<input checked="" type="checkbox"/>	IEC 60068-2-20	S03, R45, R45, R41, S02	5 x 6	0	
	Permanence of marking	<input type="checkbox"/>	ESCC 24800				
Additional Tests	Operating Life (8000h)	<input type="checkbox"/>	ESCC 4001, Para 8.13				
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				

**APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL**

Component Title: **RESISTOR, FIXED, CHIP, METAL FOIL BASED ON TYPE SMP-PW, SMS-PW, SMT-PW according to ESCC Det. Spec. 4001/027 respectively BASED ON TYPE SMR-PW, SMV-PW according to ESCC Det. Spec.4001/028**

Executive Member: **German Space Agency at DLR**

Date: **16/12/2025**

Page 5

Appl. No.

**285 H Rev. 2**

**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:

SMV-R018-1.0-PW  
SMV-R039-0.5-PW  
SMV-R270-1.0-PW

R45 (17204)  
R45 (17206)  
R45 (17205)

[Click here to enter text.](#)

Detail Specification reference: 4001/028 issue 6 Ex: three-digit code year letter R=2023 + week number

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	R45	3 x 15	0	
	Rapid Change Of Temperature	<input checked="" type="checkbox"/>	IEC 60068-2-14	R45	3 x 15	0	
	Vibration	<input checked="" type="checkbox"/>	IEC 60068-2-6	R45	3 x 15	0	
	Climatic test Sequence	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.10	R45	3 x 15	0	
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Mounting	<input type="checkbox"/>	IEC 60115-1 clause 4.31				
	Robustness of Terminations	<input type="checkbox"/>	IEC 60068-2-21				
	Climatic test Sequence	<input type="checkbox"/>	ESCC 4001, Para 8.10				
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	IEC 60068-2-20	R45	3 x 6	0	
	Mounting	<input checked="" type="checkbox"/>	IEC 60115-1 clause 4.31	R45	3 x 6	0	
	Climatic test Sequence	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.10	R45	3 x 6	0	
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Mounting	<input checked="" type="checkbox"/>	IEC 60115-1 clause 4.31	R45	3 x 15	0	
	Insulation Resistance	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.3.1.2	R45	3 x 15	0	
	Voltage Proof	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.3.1.3	R45	3 x 15	0	
Endurance Subgroup	Mounting	<input checked="" type="checkbox"/>	IEC 60115-1 clause 4.31	R45	3 x 15	0	
	Operating Life	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.13	R45	3 x 15	0	
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
Assembly Capability Subgroup	Solderability	<input checked="" type="checkbox"/>	IEC 60068-2-20	R45	3 x 6	0	
	Permanence of marking	<input type="checkbox"/>	ESCC 24800				
Additional Tests	Operating Life	<input type="checkbox"/>	ESCC 4001, Para 8.13				
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				

**APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL**

Component Title: **RESISTOR, FIXED, CHIP, METAL FOIL BASED ON TYPE SMP-PW, SMS-PW, SMT-PW according to ESCC Det. Spec. 4001/027 respectively BASED ON TYPE SMR-PW, SMV-PW according to ESCC Det. Spec.4001/028**

Executive Member: **German Space Agency at DLR**

Date: **16/12/2025**

Page 4

Appl. No.

**285 H Rev. 2**

**ANNEX 2: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION (introduction of Var07 to ESCC4001/027)**

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:

SMT-2R00-1.0-PW	S02 (Lot Code 17519)
SMT-3R30-1.0-PW	S02 (Lot Code 17522)
SMT-4R70-1.0-PW	S02 (Lot Code 17525)

Detail Specification reference: 4001/027 issue 9 Ex: three-digit code year letter S=2024 + week number

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	S02	3 x 15	0	
	Rapid Change Of Temperature	<input checked="" type="checkbox"/>	IEC 60068-2-14	S02	3 x 15	0	
	Vibration	<input checked="" type="checkbox"/>	IEC 60068-2-6	S02	3 x 15	0	
	Climatic test Sequence	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.10	S02	3 x 15	0	
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Mounting	<input type="checkbox"/>	IEC 60115-1 clause 4.31				
	Robustness of Terminations	<input type="checkbox"/>	IEC 60068-2-21				
	Climatic test Sequence	<input type="checkbox"/>	ESCC 4001, Para 8.10				
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	IEC 60068-2-20	S02	3 x 6	0	
	Mounting	<input checked="" type="checkbox"/>	IEC 60115-1 clause 4.31	S02	3 x 6	0	
	Climatic test Sequence	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.10	S02	3 x 6	0	
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Mounting	<input type="checkbox"/>	IEC 60115-1 clause 4.31				
	Insulation Resistance	<input type="checkbox"/>	ESCC 4001, Para 8.3.1.2				
	Voltage Proof	<input type="checkbox"/>	ESCC 4001, Para 8.3.1.3				
Endurance Subgroup	Mounting	<input checked="" type="checkbox"/>	IEC 60115-1 clause 4.31	S02	3 x 15	0	
	Operating Life	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.13	S02	3 x 15	0	
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
Assembly Capability Subgroup	Solderability	<input checked="" type="checkbox"/>	IEC 60068-2-20	S02	3 x 6	0	
	Permanence of marking	<input type="checkbox"/>	ESCC 24800				
Additional Tests	Operating Life (8000h)	<input type="checkbox"/>	ESCC 4001, Para 8.13				
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				

**APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL**

Component Title: **RESISTOR, FIXED, CHIP, METAL FOIL BASED ON TYPE SMP-PW, SMS-PW, SMT-PW according to ESCC Det. Spec. 4001/027 respectively BASED ON TYPE SMR-PW, SMV-PW according to ESCC Det. Spec.4001/028**

Executive Member: **German Space Agency at DLR**

Date: **16/12/2025**

Page 4

Appl. No.

**285 H Rev. 2**

**ANNEX 3: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION (new galvanic equipment)**

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:

SMP-R010-0.5-PX  
SMP-R200-0.5-PX  
SMP-R560-0.5-PX  
SMS-R020-0.5-PX  
SMS-R039-0.5-PX  
SMS-R390-0.5-PX  
SMT-R004-0.5-PX  
SMT-R020-0.5-PX  
SMT-1R80-0.5-PX

Click here to enter text.

Detail Specification reference: 4001/027 issue 9

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 type="checkbox"/>	IEC 60115-1 clause 4.31				
	Rapid Change Of Temperature	<input type="checkbox"/>	IEC 60068-2-14				Performed under different conditions, see later
	Vibration	<input type="checkbox"/>	IEC 60068-2-6				the change has no impact
	Climatic test Sequence	<input type="checkbox"/>	ESCC 4001, Para 8.10				the change has no impact
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Mounting	<input type="checkbox"/>	IEC 60115-1 clause 4.31				n/a acc. to det.spec.
	Robustness of Terminations	<input type="checkbox"/>	IEC 60068-2-21				n/a acc. to det.spec.
	Climatic test Sequence	<input type="checkbox"/>	ESCC 4001, Para 8.10				n/a acc. to det.spec.
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				n/a acc. to det.spec.
	Resistance to Soldering Heat	<input type="checkbox"/>	IEC 60068-2-20				the change has no impact
	Mounting	<input type="checkbox"/>	IEC 60115-1 clause 4.31				
	Climatic test Sequence	<input type="checkbox"/>	ESCC 4001, Para 8.10				the change has no impact
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				n/a acc. to det.spec.
	Mounting	<input type="checkbox"/>	IEC 60115-1 clause 4.31				n/a acc. to det.spec.
	Insulation Resistance	<input type="checkbox"/>	ESCC 4001, Para 8.3.1.2				n/a acc. to det.spec.
	Voltage Proof	<input type="checkbox"/>	ESCC 4001, Para 8.3.1.3				n/a acc. to det.spec.
Endurance Subgroup	Mounting	<input type="checkbox"/>	IEC 60115-1 clause 4.31				
	Operating Life	<input type="checkbox"/>	ESCC 4001, Para 8.13				the change has no impact on the long-term reliability
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				n/a acc. to det.spec.
Assembly Capability Subgroup	Solderability	<input checked="" type="checkbox"/>	IEC 60068-2-20	all	9 x 10		
	Permanence of marking	<input type="checkbox"/>	ESCC 24800				n/a acc. to det.spec.
Additional Tests	Operating Life (8000h)	<input type="checkbox"/>	ESCC 4001, Para 8.13				
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Mounting	<input checked="" type="checkbox"/>	IEC 60115-1 clause 4.31	all	9 x 10		
	Rapid Change Of Temperature	<input checked="" type="checkbox"/>	IEC 60068-2-14	all	9 x 10		500 cycles, -55/+150°C, 30 min each



# APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: **RESISTOR, FIXED, CHIP, METAL FOIL BASED ON TYPE SMP-PW, SMS-PW, SMT-PW according to ESCC Det. Spec. 4001/027 respectively BASED ON TYPE SMR-PW, SMV-PW according to ESCC Det. Spec.4001/028**

Executive Member: **German Space Agency at DLR**

Date: **16/12/2025**

Page 6

Appl. No.

**285 H Rev. 2**

## ANNEX 4: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION (new lead frame coating)

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:


SMV-R015-1.0-PW  
SMV-R033-1.0-PW  
SMV-1R00-1.0-PW

T23 (17309)  
T23 (17307)  
T23 (17308)

Detail Specification reference: 4001/028 issue 6 Ex: three-digit code year letter T=2025 + week number

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	all	3 x 15	0	
	Rapid Change Of Temperature	<input checked="" type="checkbox"/>	IEC 60068-2-14	all	3 x 15	0	
	Vibration	<input checked="" type="checkbox"/>	IEC 60068-2-6	all	3 x 15	0	
	Climatic test Sequence	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.10	all	3 x 15	0	
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Mounting	<input type="checkbox"/>	IEC 60115-1 clause 4.31				
	Robustness of Terminations	<input type="checkbox"/>	IEC 60068-2-21				
	Climatic test Sequence	<input type="checkbox"/>	ESCC 4001, Para 8.10				
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	IEC 60068-2-20	all	3 x 6	0	
	Mounting	<input checked="" type="checkbox"/>	IEC 60115-1 clause 4.31	all	3 x 6	0	
	Climatic test Sequence	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.10	all	3 x 6	0	
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Mounting	<input type="checkbox"/>	IEC 60115-1 clause 4.31				
	Insulation Resistance	<input checked="" type="checkbox"/>	ESCC 4001, Para 8.3.1.2	all	3 x 15		
	Voltage Proof	<input type="checkbox"/>	ESCC 4001, Para 8.3.1.3				
Endurance Subgroup	Mounting	<input type="checkbox"/>	IEC 60115-1 clause 4.31				
	Operating Life	<input type="checkbox"/>	ESCC 4001, Para 8.13		-		the change has no impact on the long-term reliability
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
Assembly Capability Subgroup	Solderability	<input type="checkbox"/>	IEC 60068-2-20		-		the change has no impact on the solderability
	Permanence of marking	<input type="checkbox"/>	ESCC 24800				
Additional Tests	Operating Life (8000h)	<input type="checkbox"/>	ESCC 4001, Para 8.13				
	Seal Test	<input type="checkbox"/>	IEC 60068-2-17				
	Rapid Change Of Temperature	<input checked="" type="checkbox"/>	IEC 60068-2-14	all	3 x 15		500 cycles, -55/+150°C, 30 min each



	<p align="center"><b>APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL</b></p> <p>Component title: <b>RESISTOR, FIXED, CHIP, METAL FOIL BASED ON TYPE SMP-PW, SMS-PW, SMT-PW according to ESCC Det. Spec. 4001/027 respectively BASED ON TYPE SMR-PW, SMV-PW according to ESCC Det. Spec.4001/028</b></p> <p>Executive Member: <b>German Space Agency at DLR</b>      Date: <b>16/12/2025</b></p>	<p>Page 8</p> <p>Appl. No.</p> <p><b>285 H Rev. 2</b></p>
<p align="center"><b>NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL</b></p>		
<p><b>ENTRIES</b></p> <p>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.</p> <p><b>Box 1</b>      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.</p> <p><b>Box 2; 3 and 4</b>      As per QPL entry; otherwise, an explanation of the changes must be supplied.</p> <p><b>Box 5</b>      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.</p> <p><b>Box 6</b>      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.</p> <p><b>Box 7</b>      Must reference the report(s) supplied in support of the application.</p> <p><b>Box 8</b>      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.</p> <p><b>Box 9</b>      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.</p> <p><b>Box 10</b>      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.</p> <p><b>Box 11</b>      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.</p> <p><b>Box 12</b>      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.</p> <p><b>Box 13</b>      Enter only the name of the Executive Member (i.e., CNES, DLR, ESTEC, etc.) and the signature of the responsible Executive Coordinator.</p> <p><b>Box 14</b>      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.</p> <p><b>Box 15</b>      Fill in Table as requested.</p> <p><b>Box 16</b>      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.</p> <p><b>Box 17</b>      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.</p> <p><b>Box 18</b>      Fill in Table as requested.</p> <p><b>Box 19</b>      Confidential Details of PID changes including those of a confidential nature, shall be provided.</p> <p><b>Box 20</b>      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'.</p> <p><b>Box 21</b>      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.</p> <p><b>Box 22</b>      Additional Comments.</p>		