

**APPLICATION FOR ESC QUALIFICATION APPROVAL**

Component Title: Resistance Temperature Detector, Thin film Platinum Sensor, PTC, range 100 to 2000 Ohms at 0°C.

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Appl. No. 352B

Executive Member: **ESA**

Date: 20/01/2022

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Components (including series and families) submitted for Qualification Approval:

ESCC COMP. NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
4006015	AABBCDDDD ¹	Heat shrink tube code – and A		40060150204A0100	equivalent subvariants
				40060150204B0100	equivalent subvariants
				40060150205A0100	equivalent subvariants
				40060150205B0100	equivalent subvariants
				40060150204A1000	equivalent subvariants
				40060150204B1000	equivalent subvariants
				40060150205A1000	equivalent subvariants
				40060150205B1000	equivalent subvariants

2 Component Manufacturer Innovative Sensor Technology IST AG	3 Location of manufacturing plant Stegrütistrasse 14, 9642 Ebnat Kappel, Switzerland	4 ESCC Specifications used for Qualification Generic: ESCC 4006 Details: ESCC 4006 /015 Issue 4
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5 Qualification Report reference and date: COMBINED EVALUATION AND QUALIFICATION REPORT OF PLATINUM THIN FILM TEMPERATURE SENSORS WITH TAIL EXTENSION Date: October 2021	6 PID used for manufacturing Qualification Lot Ref. No.: PID RTD TailExtension Issue: 1 Date: 20/01/2022
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7 PID Changes since start of qualification testing None <input checked="" type="checkbox"/> Minor* <input type="checkbox"/> * provide detail Major* <input type="checkbox"/>	8 Current PID Verified by: A. Pesce, ESA Name of Executive Representative Ref. No.: PID RTD TailExtension Issue: 1 Date: 20/01/2022
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9 Current Manufacturing Facilities surveyed by <u>D. Lacombe, F. Martinez, ESA</u> on 27/09/2017 name of (Executive Representative) Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain Based on audit IST-AUD-2017
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10 Quality and Reliability Data Evaluation testing performed Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Report Ref. No.: 001 date: 28.10.2021 Equivalent data: (provide details) Certification:	Failure Analysis, DPA, NCCS available: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (supply data) Ref. Nos. and purpose
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¹ Base on ESCC 4006015 Issue 4 Draft E, chapt. 1.4.1.1: AA: Component Type Variant Number, BB: Characteristic Code: Termination Type, C: Characteristic Code: Heat-shrink Tubing Type, DDDD: Characteristic Code: Extension Cable/Wires Nominal Total Length



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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 13; that the reports and data are available at the ESCC Executive and therefore applies for ESCC qualification status to be given to the component(s) listed herein.

Date:

Anastasia Pesce Digitally signed by Anastasia Pesce
Date: 2022.02.25 15:28:32 +01'00'
 (Signature of the Executive Coordinator)


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Continuation of Boxes above:

Devices tested:

Config.	Insulation	Sensor	Extension	Testgroup
2-wire	TFE-R, Size 5/64 Kynar, Size 3/64	ESCC 4006/015/02	ESCC 3901/019/02	1, 2, 7
2-wire	TFE-R, Size 5/64 TFE-R, Size 1/8	ESCC 4006/015/02	ESCC 3901/019/02	3
2-wire	Kynar, Size 3/64 Kynar, Size 3/32	ESCC 4006/015/02	ESCC 3901/019/02	3
4-wire	TFE-R, Size 1/8 Kynar, Size 3/32	ESCC 4006/015/02	ESCC 3901/019/73	4, 5, 8
4-wire	TFE-R, Size 1/8	ESCC 4006/015/02	ESCC 3901/019/73	6
4-wire	Kynar, Size 3/32	ESCC 4006/015/02	ESCC 3901/019/73	6

The Kynar shrink sleeve is not part of the qualified range but was tested during the test sequence.

	<p align="center">APPLICATION FOR ESCC QUALIFICATION APPROVAL</p> <p>Component Title: Resistance Temperature Detector, Thin film Platinum Sensor, PTC, range 100 to 2000 Ohms at 0°C.</p> <p>Executive Member: ESA</p> <p align="right">Date: 20/01/2022</p>	<p>Page 3</p> <p>Appl. No. 352B</p>
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Non compliance to ESCC requirements:

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No.:	Specification	Paragraph	Non compliance
1	ESCC 20100	5.3.2 the evaluation of a component	This qualification combined Evaluation and Qualification testing in a single test plan

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

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A Single-Phase Qualification methodology was agreed by the ESCC Executive as an alternative approach for this qualification in line with ESCC policy from SCSB#46, September 2016

Executive Manager Disposition:

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Application Approval: Yes No

Action/Remarks:

Date:

Britta Schade Digitally signed by Britta Schade
Date: 2022.03.31 15:00:04 +02'00'

B. Schade: Head of the Product Assurance and Safety Department