



# Product Change Notification



Product Group: DR/Thu Jun 16, 2022/PCN-DR-00017-2021-REV-2

## WSC/WSN High Temperature Exposure

**DESCRIPTION OF CHANGE:** High Temperature Exposure and power derating curves are being restored to 275 °C, but with a revised limit from 0.5% (previous) to 2% (new).

**REASON FOR CHANGE:** (Revision levels are split due to database limitation to 1,000 part numbers)

Rev 0 & 1: High temperature exposure rating was based on equivalent temperature exposure rating of the internal subassembly instead of the WSC/WSN SMD assembly. The reduction is to reflect the limitations of the standard Lead Free solder SMD process and FR4 materials used in customer applications for testing and qualification.

Rev 2 & 3: The new revision is driven by application based discussions with customers in reviewing the test data and considering no change in construction or materials for the WSC/WSN. The revised curve is a return to the original 275 °C maximum temperature exposure with a 2% limit. Customer feedback led to revising the limit instead of revising the derating curve downwards.

**EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE:** Test data supports maintaining the same derating curve, but increasing the test limits.

**PART NUMBERS/SERIES/FAMILIES AFFECTED:** WSC\*, WSN\*,

**VISHAY BRAND(s):** Vishay Dale

**TIME SCHEDULE:**

Start Shipment Date: Sat Aug 20, 2022

**SAMPLE AVAILABILITY:** Now

**PRODUCT IDENTIFICATION:** NA

**QUALIFICATION DATA:** Qualification data available by request.

**This PCN is considered approved, without further notification, unless we receive specific customer concerns before Thu Sep 22, 2022 or as specified by contract.**

**ISSUED BY:** Bryan Yarborough, Bryan.Yarborough@vishay.com

**For further information, please contact your regional Vishay office.**

**CONTACT INFORMATION:**

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ONE OF THE WORLD'S LARGEST MANUFACTURERS OF DISCRETE SEMICONDUCTORS AND PASSIVE COMPONENT



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Production Part Approval

AEC-CDF- Passive Component Qualification

Vishay Test Report #14967

SUPPLIER - Vishay-Juarez							
NAME OF LABORATORY - Vishay Dale Electronics Test Lab		PART NAME -WSC2515 0.1 Ohm Surface Mount Wirewound Resistor					
DESCRIPTION	AEC TEST #	TEST CONDITIONS	LIMIT	QTY. TESTED	HOURS/ CYCLES	RANGE	
High Temperature Exposure	3	MIL-STD-202, Method 108, 2000 Hrs @ T=275°C @ 0% power, Measurements at 24± 2 hrs	± (2.0% + 0.05 Ω)	77	2000	-0.8300	TO 0.

Production Part Approval

AEC-CDF- Passive Component Qualification

Vishay Test Report #14965

SUPPLIER - Vishay-Juarez							
NAME OF LABORATORY - Vishay Dale Electronics Test Lab		PART NAME -WSC2515 15 Ohm Surface Mount Wirewound Resistor					
DESCRIPTION	AEC TEST #	TEST CONDITIONS	LIMIT	QTY. TESTED	HOURS/ CYCLES	RANGE	
High Temperature Exposure	3	MIL-STD-202, Method 108, 2000 Hrs @ T=275°C @ 0% power, Measurements at 24± 2 hrs	± (2.0% + 0.05 Ω)	77	2000	0.6410	TO 1.

Production Part Approval

AEC-CDF- Passive Component Qualification

Vishay Test Report #14967

SUPPLIER - Vishay-Juarez							
NAME OF LABORATORY - Vishay Dale Electronics Test Lab		PART NAME -WSC2515 1500 Ohm Surface Mount Wirewound Resistor					
DESCRIPTION	AEC TEST #	TEST CONDITIONS	LIMIT	QTY. TESTED	HOURS/ CYCLES	RANGE	
High Temperature Exposure	3	MIL-STD-202, Method 108, 2000 Hrs @ T=275°C @ 0% power, Measurements at 24± 2 hrs	± (2.0% + 0.05 Ω)	77	2000	-0.3580	TO 1.

Production Part Approval

AEC-CDF- Passive Component Qualification

Vishay Test Report #14967

SUPPLIER - Vishay-Juarez							
NAME OF LABORATORY - Vishay Dale Electronics Test Lab		PART NAME -WSC2515 2500 Ohm Surface Mount Wirewound Resistor					
DESCRIPTION	AEC TEST #	TEST CONDITIONS	LIMIT	QTY. TESTED	HOURS/ CYCLES	RANGE	
High Temperature Exposure	3	MIL-STD-202, Method 108, 2000 Hrs @ T=275°C @ 0% power, Measurements at 24± 2 hrs	± (2.0% + 0.05 Ω)	77	2000	-0.3880	TO 0.