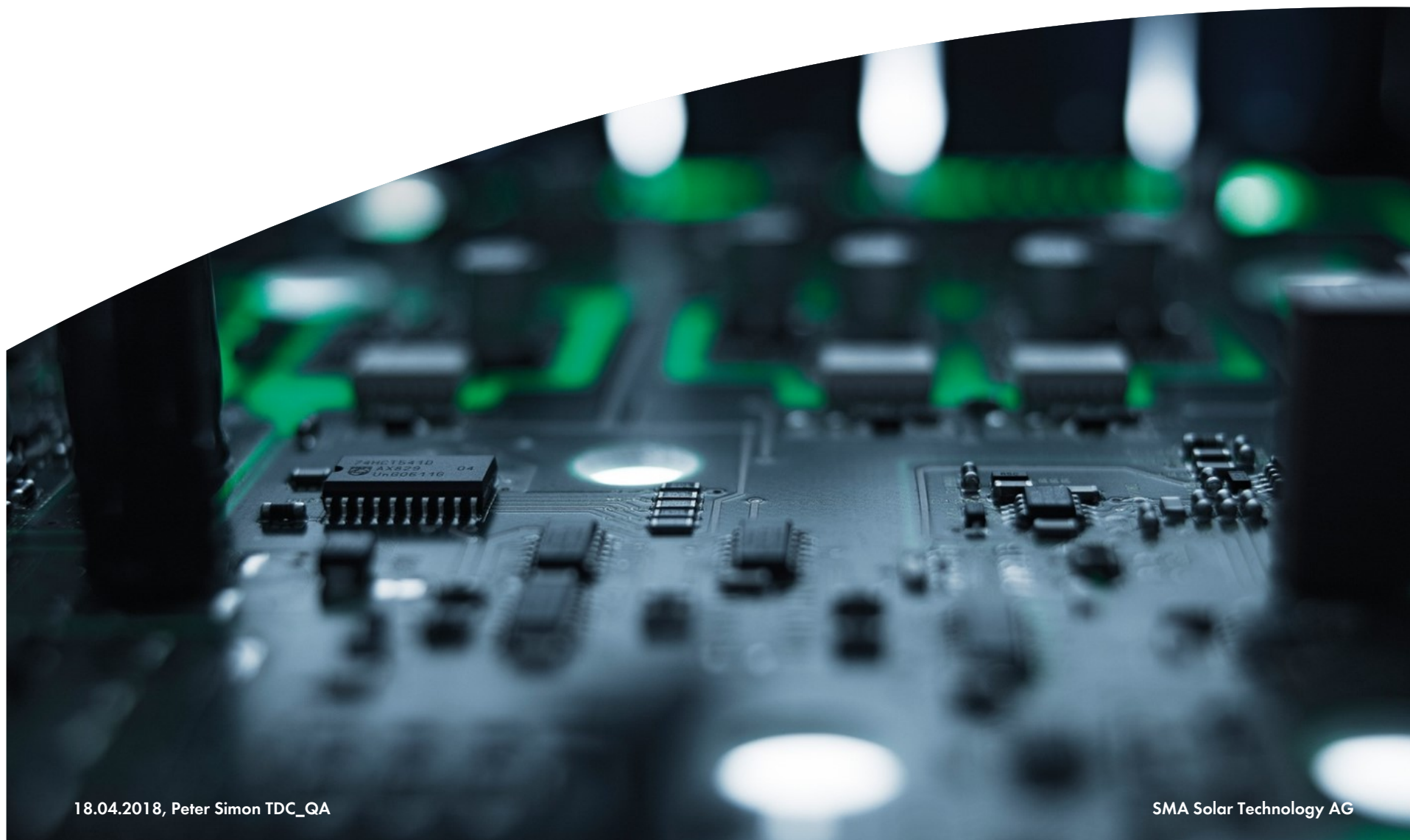


ROHS 1,2,3



HISTORY OF ROHS ON THE KEY DATE 22.07.2019



RoHS I, 27.01.2002

DIRECTIVE 2002/95 / EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL from January 27, 2003 Restricting the use of certain hazardous substances in electrical and electronic equipment

Device categories covered by this policy

1. Home appliances
2. Small household appliances
3. IT and telecommunications equipment
4. Consumer electronics
5. Lighting fixture
6. Electrical and electronic tools (except stationary large industrial tools)
7. Toys and sports and leisure equipment
8. Medical devices (with the exception of all implanted and infected products)
9. Monitoring and control instruments
10. Automatic output devices

Substances which are subject to restrictions, as referred to in Article 4 (1), and maximum concentrations in homogeneous materials by weight

- Lead (0.1%)
- Mercury (0.1%)
- Cadmium (0.01%)
- Hexavalent chromium (0.1%)
- Polybrominated biphenyls (PBB) (0.1%)
- Polybrominated diphenyl ethers (PBDE) (0.1%)

RoHS II, 08.06.2011

DIRECTIVE 2011/65 / EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL from the 8th of June 2011 Restricting the use of certain hazardous substances in electrical and electronic equipment

Device categories covered by this policy

1. Home appliances
2. Small household appliances
3. IT and telecommunications equipment
4. Consumer electronics
5. Lighting fixture
6. Electrical and electronic tools (except stationary large industrial tools)
7. Toys and sports and leisure equipment
8. Medical devices (with the exception of all implanted and infected products)
9. Monitoring and control instruments
10. Automatic output devices
11. Other electrical and electronic equipment

Substances which are subject to restrictions, as referred to in Article 4 (1), and maximum concentrations in homogeneous materials by weight

- Lead (0.1%)
- Mercury (0.1%)
- Cadmium (0.01%)
- Hexavalent chromium (0.1%)
- Polybrominated biphenyls (PBB) (0.1%)
- Polybrominated diphenyl ethers (PBDE) (0.1%)

„RoHS III“ 31.03.2015

COMMISSION DELEGATED DIRECTIVE (EU) 2015/863 of 31 March 2015 amending Annex II to Directive 2011/65 / EU of the European Parliament and of the Council as regards the list of substances subject to restrictions

Device categories covered by this policy

1. Home appliances
2. Small household appliances
3. IT and telecommunications equipment
4. Consumer electronics
5. Lighting fixture
6. Electrical and electronic tools (except stationary large industrial tools)
7. Toys and sports and leisure equipment
8. Medical devices (with the exception of all implanted and infected products)
9. Monitoring and control instruments
10. Automatic output devices
11. Other electrical and electronic equipment

Substances which are subject to restrictions, as referred to in Article 4 (1), and maximum concentrations in homogeneous materials by weight

- Lead (0.1%)
- Mercury (0.1%)
- Cadmium (0.01%)
- Hexavalent chromium (0.1%)
- Polybrominated biphenyls (PBB) (0.1%)
- Polybrominated diphenyl ethers (PBDE) (0.1%)
- Di (2-ethylhexyl) phthalate (DEHP) (0.1%)
- Butylbenzyl phthalate (BBP) (0.1%)
- Dibutyl phthalate (DBP) (0.1%)
- Diisobutyl phthalate (DIBP) (0.1%)



new!



new!

EXAMPLE FOR CURRENT ROHS-DECLARATIONS



VISHAY RoHS Certificate
www.vishay.com Vishay

Directive on the Restriction of the Use of Hazardous Substances (RoHS)

Dear Customer,

The Vishay Aluminum Capacitor and Energy Storage part numbers / series of the brands Vishay BCcomponents, Vishay Roederstein, Vishay OG-CON, and Vishay Sprague as listed in the Annex comply with the following European and Chinese Directives starting from the dates shown in the Annex:

- 2000/53/EC End of Life Vehicle (ELV)
- 2000/53/EC Amendment (2002/525/EC) of Annex II of ELV
- 2011/65/EU Restriction of the use of Hazardous Substances in EEE (RoHS)
- Administrative Measures on the Control of Pollution Caused by Electronic Information Products ("China RoHS")
- 2015/863/EU Change of Annex II from 2011/65/EU

These products do not contain any of the following substances in more than the following concentrations in any of the homogeneous materials:

Cadmium	0.01 % in weight
Chromium VI	0.1 % in weight
Mercury	0.1 % in weight
Lead	0.1 % in weight
Polybrominated biphenyls (PBB)	0.1 % in weight
Polybrominated diphenyl ethers (PBDE)	0.1 % in weight
Bis(2-ethylhexyl)phthalate (DEHP)	0.1 % in weight
Butyl benzyl phthalate (BBP)	0.1 % in weight
Dibutyl phthalate (DBP)	0.1 % in weight
Diisobutyl phthalate (DIBP)	0.1 % in weight

No technology exemptions are applicable for these products.
The EUFP (Environmental Friendly User Period) for China RoHS is not applicable.
The data provided are correct to the best of our knowledge.

Gerald Tscholl
Gerald Tscholl
Senior Manager Product Marketing – Aluminum Capacitors Division
REACH, RoHS, and Hazardous Substances Coordinator Aluminum Capacitors Division

Revision: 30-Mar-16 1 Document Number: 28429

For technical questions, contact 2016CM.Support@vishay.com
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more than you expect

WÜRTH ELEKTRONIK
WÜRTH ELEKTRONIK eSOS GmbH & Co. KG
100% a subsidiary of Würth
Max-Eyth-Strasse 1 | 74639 Heppenheim, Germany
Tel. +49 (0) 79 43 943-0 | Fax +49 (0) 79 43 943-863
info@wue.de | www.wue.de

WE
WÜRTH ELEKTRONIK

Anpassung der RoHS-Richtlinie 2015/863: 28.10.2015
Erweiterung der Limitierung von 4 zusätzlichen Stoffen

Die Kommission (EU) hat am 04.Juni 2015 die Aufnahme von 4 weiteren Stoffen in der RoHS-Richtlinie 2015/863 beschlossen und veröffentlicht. Diese Stoffe sind wie folgt angegeben:

- Bis(2-ethylhexyl) phthalate (DEHP) (0,1 %)
- Butyl benzyl phthalate (BBP) (0,1%)
- Dibutyl phthalate (DBP) (0,1 %)
- Diisobutyl phthalate (DIBP) (0,1 %)

In der aktuellen Veröffentlichung werden die Mitgliedstaaten dazu aufgefordert die neue Regulierung bis zum 22.Juni 2019 in Kraft zu setzen.

Die Würth Elektronik eSOS GmbH & Co.KG ist die Anpassung und die relevanten Gültigkeitsdaten bekannt. Aus diesem Grund arbeiten wir bereits heute daran, unser betroffenes Produktportfolio entsprechend zu testen, um eine Übereinstimmung mit der neuen Richtlinie 2015/863 zum 22. Juli 2019 sicherzustellen.

Als verantwortl. Umweltmanager bin ich berechtigt und ermächtigt, für und im Auftrag von Würth Elektronik eSOS GmbH & Co. KG diese Erklärung abzugeben.

Referenz: Von der Kommission übertragene Richtlinie (EU) 2015/863 zur Änderung von Anhang II der Richtlinie 2011/65/EU des Europäischen Parlaments und des Rates hinsichtlich der Liste der verbotenen Stoffe
http://eur-lex.europa.eu/legal-content/DE/TXT/PDF/?uri=CELEX:32015_L187_R_0003&from=DE

T. Gahrke
Thorsten Gahrke
Umweltmanager

D. Krot
Dirk Krot
Teamleiter Qualitätsmanagement

WÜRTH ELEKTRONIK eSOS GmbH & Co. KG | 100% Tochter der Würth Group | 100% Tochter der Würth Group
Bismarckstraße 1 | 74639 Heppenheim, Germany | Tel. +49 (0) 79 43 943-0 | Fax +49 (0) 79 43 943-863
www.wue.de | www.wue.de



VITROHM
A YAGEO COMPANY

VITROHM PORTUGUESA – Unipessoal, Lda.
Avenida 174 - Alameda
2780-201 B. Oeiras de Ramal - PORTUGAL

RoHS Statement

Vitrohm Portuguesa hereby certifies that all the components of all products manufactured by VITROHM are in compliance with EU directive, 2011/65/EU of 8th of June of 2011, along with the 4 phthalates amend in EU directive 2015/863 of 4th of June of 2015 regarding the restriction and use of certain hazardous substances in electrical and electronics equipment's (RoHS Directives).

Vitrohm products are also in compliance with China RoHS directive.

Only the series RGS (historical Vitrohm p/n RGI and RGIU use the exemption 7(a), according to the annex III of the Directive 2002/95/EC.

The stated components are deemed as compliant as according to definitions given in the directives (Refer to directives) and that a maximum concentration level (MCL) threshold amount for the following six banned substances will be tolerated.

Maximum Concentration Level (MCL):

Substance	Maximum Concentration Levels
Lead	0.1% by weight (1000 ppm) (1)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% by weight (100 ppm) (1)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE)	0.1% by weight (1000 ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% by weight (1000 ppm)

(1) The MCL does not apply to applications for which exemptions have been granted to the RoHS Directive.

The MCL will be defined as "a percentage by weight of homogeneous material "in a product.

Trajusco, 06th of April of 2017

[Signature]
General Management

Rua, Est. Nacional 254 - Fátima - P-2705-833 Oeiras, Portugal - Tel. +351 214 107 700 - Fax: +351 214 107 705
E-mail: info@vitrohm.com | www.vitrohm.com - Capital Social: 50.000 € - Contabilização: Registo Commercial, C.R. 120307
N.º de Registo: 120307

> We will fulfill the RoHS Directive 2011/65 / EU as of 22.07.2019 and 2015/863 / EU, ie amended Annex II.