

Micro Crystal confirms that below listed standard products Real Time Clock Modules in ceramic packages are compliant with the RoHS 3 Directive 2015/863/EU and REACH Regulation 1907/2006/EU of the European Parliament and of the Council on the Restriction of the use of Hazardous Substances in electrical and electronics equipment.

Latest version of CoC Environment: [www.microcrystal.com/en/company/related-documents](http://www.microcrystal.com/en/company/related-documents)

**RV-Series Real Time Clock Modules (RV-C2/RV-C3/RV-C7/RV-C8)**

| Directive   | Description  |
|---|--|
| <p><b>RoHS Directive</b> 2011/65/EU / (RoHS 2)<br/>Edition: July 1st 2011 and<br/><b>Directive</b> 2015/863/EU / (RoHS 3)<br/>Edition: 31.3.2015</p>  | Restrictions of Hazardous Substances<br>- RoHS compliant<br>- 100% Lead free   |
| <p><b>China RoHS 2</b> / GB / T 26572-2011<br/>Edition: January 21<sup>th</sup> 2016</p>  | Restrictions of Hazardous Substances<br>- China RoHS 2 compliant   |
| <p><b>VOC's</b> GB 30981 / 38507 / 33372 / 38508<br/>Edition: March 2020</p>  | Materials used in products and processes are in compliance with the China VOC regulations.   |
| <p><b>WEEE Directive</b> 2012/19/EU<br/>Edition: July 4<sup>th</sup> 2012</p>   | Waste from Electrical and Electronic Equipment<br>- compliant with WEEE directive  |
| <p><b>REACH Regulation</b> 1907/2006/EU<br/>(REACH = Registration, Evaluation and Authorisation of Chemicals) According to article 59 (10) and articles 56 and 67 / annexes XIV and XVII of Regulation - IEC 62474 Int. Electrotechnical Commission</p> | SVHC: Substances of Very High Concern<br>Number of substances on the Candidate List: 240 - last updated: 23 <sup>rd</sup> of January 2024<br>- products do not contain substances from the latest SVHC candidate list above 0.1%.<br>- IEC: Declarable Substances List: actual Version |
| <p><b>Directive</b> 2019/1021/EC<br/>Edition June 20<sup>th</sup> 2019<br/><b>Directive</b> 2006/122/EC<br/>Edition December 12<sup>th</sup> 2006<br/><b>PFAS</b> e.g. Reg. State of Maine L.D. 1503</p>  | Persistent Organic Pollutants (POP's)<br>- products are free of POP's (incl. PFOS, PFOA) and Perfluoroalkyl and Polyfluoroalkyl substances (PFAS)  |
| <p><b>California Proposition 65</b><br/>The Safe Drinking Water and Toxic Enforcement Act of 1986</p>   | Products contain listed substances Nickel (CAS 7440-02-0) and Cobalt (CAS 7440-48-4) and are compliant with Prop 65. <sup>1)</sup>   |
| <p>US-EPA (Environmental Protection Agency)<br/>TSCA (Toxic Substances Control Act)<br/>e-CFR system 40 Part 751</p>  | The products contains one or more components for which a Low Volume Exemption (LVE) with 40 CFR 723.50 applies.  |
| <p>Halogen free</p>   | Halogen free<br>- products are free of Halogen   |
| <p>Conflict-Free Sourcing Initiative (CFSI), founded by EICC and GeSI.<br/>Conflict Minerals Reporting Template (CMRT)<br/>Extended Material Reporting Template (EMRT)</p>  | It is Micro Crystal's strict policy not to purchase any <b>Conflict Minerals</b> that are mined under conditions of armed conflict and human rights abuses.  |
| <p><b>Various</b><br/>Radioactive Materials<br/>Ozone Depleting Substances, Asbestos, BPA, PVC, DMF, HBCDD, Latex nor Phthalates.</p>   | Products are compliant with:<br>EU Directive 96/29<br>EU Directive 1005/2009 / EU Directive 2009/148   |

<sup>1)</sup> Detailed "Material composition" see pdf document "Product Doc." or "App. Manual" (Homepage)

**Document Revision History**

| Date              | Rev #     | Revision Details                          | Date      | Rev # | Revision Details        |
|-------------------|-----------|---|-----------|-------|-------------------------|
| Jan. 20 - July 22 | 2.1 – 2.7 | Update REACH / Candidate list / IEC 62474 | Feb. 2024 | 3.2   | Update REACH            |
| Dec. 17 - Aug. 19 | 1.5 – 2.0 | Different updates                         | July 2023 | 3.1   | Update REACH            |
| Sept. 2016        | 1.0       | First release                             | Jan. 2023 | 3.0   | Update REACH / add PFAS |

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**Document Status**

| Date                          | CoC Environmental | Name             | Title           | Signature |
|-------------------------------|-------------------|------------------|-----------------|-----------|
| February 1 <sup>st</sup> 2024 | Document Approved | Fritz Burkhalter | Quality Manager |           |