## 1 PURPOSE & SCOPE

The purpose of this document is to communicate Qorvo's compliance with the EU RoHS Directive to interested parties.

## 2 REFERENCES

| Reference | Title | Location |
|---|---|---|
| EU Directive 2011/65/EU | Restriction of Hazardous Substances in Electrical and Electronic Equipment | http://ec.europa.eu/environment/waste/rohs_eee/legis_en.htm |
| EU Delegated Directive 2015/863/EU | Amending Annex II to EU Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances | http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32015L0863 |

## 3 RoHS Statement

The European Union Restriction of Hazardous Substances in Electrical and Electronic Equipment Directive (as amended, the "RoHS Directive") went into effect on July 1, 2006. This directive was modified extensively in 2011 (Directive 2011/65/EU) and amended in 2015 (Delegated Directive 2015/863/EU). The RoHS Directive bans the use of certain hazardous substances in Electrical and Electronic Equipment (EEE), unless that use is covered by a listed exemption.

The RoHS Directive, and the associated maximum concentrations for the restricted substances, apply at the homogenous material level. The restricted substances and their allowable limits are shown below in Table 1.

Table 1. Maximum Concentration Values from 2011/65/EU and 2015/863/EU

| RoHS Restricted Substance | Allowable Limit |
|---|---|
| Cadmium and its compounds | 100 ppm (0.01 weight %) |
| Mercury and its compounds | 1000 ppm (0.1 weight %) |
| Hexavalent chromium and its compounds | 1000 ppm (0.1 weight %) |
| Lead and its compounds | 1000 ppm (0.1 weight %) |
| Polybrominated biphenyls (PBB) | 1000 ppm (0.1 weight %) |
| Polybrominated diphenyl ethers (PBDE) | 1000 ppm (0.1 weight %) |
| Bis(2-ethylhexyl) phthalate (DEHP) | 1000 ppm (0.1 weight %) |
| Butyl benzyl phthalate (BBP) | 1000 ppm (0.1 weight %) |
| Dibutyl phthalate (DBP) | 1000 ppm (0.1 weight %) |
| Diisobutyl phthalate (DIBP) | 1000 ppm (0.1 weight %) |

Qorvo reviews its suppliers' certifications, material content data and confidentially disclosed chemicals and materials information on an on-going basis to confirm that, to the best of its knowledge, all Qorvo products are compliant with the RoHS Directive ("RoHS Compliant"). Although most Qorvo products that are sold into the commercial market are below the maximum concentration limits, certain products require the use of an exemption to meet compliance. The list of exemptions (which is included in the RoHS Directive as Annex III) is not static, as exemptions are added and removed periodically. Qorvo uses Exemption 7(c)-I and 7(a) at this time:

- 7(c)-I – Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. pizeoelectronic devices, or in a glass or ceramic matrix compound.
- 7(a) – Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

Qorvo continues to take reasonable steps to acquire representative and accurate data (that may in some cases include the use of destructive testing or chemical analysis on incoming materials and chemicals) and update its material content data accordingly. Qorvo also updates material content data as new RoHS Directive requirements are identified. Qorvo and its suppliers may consider certain information to be proprietary and, therefore, CAS numbers and other data may not be available for release.

In order to help its customers meet their obligations under the RoHS Directive, Qorvo provides full material declarations using the IPC 1752A format. Customers should request material declarations and certificates of compliance by emailing QorvoGreen@qorvo.com.

## 4 REVISION HISTORY

| Revision | Create Date (mm/dd/yyyy) | Description of Change | Initiator of Change |
|---|---|---|---|
| A | 2/19/2020 | Initial Revision | M. Mybeck |
| B | 5/23/2023 | Added Exemption 7(a) to statement | M. Mybeck |
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