



November 1, 2018

## Riedon RoHS 3 Certificate

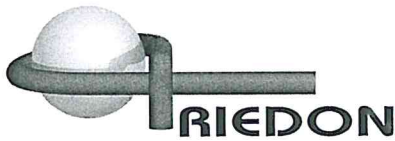
The European Union (EU) issued Directive 2002/95/EC on the Restriction of certain Hazardous Substances (RoHS) applies to most electrical and electronic equipment placed on the market after July 1, 2006. The Directive was repealed and replaced by the most current Directive 2011/65/EU of 8 June 2011 (“Recast” or “RoHS 2”), which became effective January 1, 2013. The directives require elimination or limited use of the following chemicals (limit 0.1% of weight, or 1000 ppm, of any “homogeneous material”):

- Lead (Pb) (0.1%)
- Mercury (Hg) (0.1%)
- Cadmium (Cd) (limit is 0.01% or 100 ppm by weight)
- Hexavalent Chromium (Cr<sup>+6</sup>) (0.1%)
- Polybrominated Biphenyl (PBB) (0.1%)
- Polybrominated Diphenyl Ether (PBDE) (0.1%)

Under the most recent directive, (EU) 2015/863, known as “RoHS 3”, the following additional 4 chemicals are scheduled for application in July, 2019:

- Bis(2-Ethylhexyl) phthalate (DEHP) (0.1%)
- Benzyl butyl phthalate (BBP) (0.1%)
- Dibutyl phthalate (DBP) (0.1%)
- Diisobutyl phthalate (DIBP) (0.1%)

**Riedon, Inc. confirms that our standard resistor products, as described in the company website [www.riedon.com](http://www.riedon.com), are all in compliance with the most recent Directive (RoHS 3). Unless specifically identified by Riedon in our product spec sheets, all standard products are compliant without exemptions. Currently, Riedon has identified nine, and only nine, resistor products which are RoHS 3 Compliant with Exemption:**



| <u>Product</u>                                | <u>Exemption (*)</u> |
|-----------------------------------------------|----------------------|
| CLR-Series - Thick Film Chip Resistor         | 7(c)-1               |
| CHR-Series - Non Magnetic Chip Resistor       | 7(c)-1               |
| PCR-Series - Pulse Withstanding Chip Resistor | 7(c)-1               |
| PFC-Series – Thick Film Power SMD Resistor    | 7(c)-1               |
| PFS-Series – Power SMD Film Resistor          | 7(a) & 7(c)-1        |
| FPS-Series – Precision Shunt Resistor         | 7(a)                 |
| PF1260-Series – Power SMD Resistor            | 7(a) & 7(c)-1        |
| PF2200-Series – Power SMD Resistor            | 7(a) & 7(c)-1        |
| PF2470-Series – Power SMD Resistor            | 7(a) & 7(c)-1        |

(\*) Exemption 7(c)-1 – “Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound”

(\*) Exemption 7(a) – “Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)”

These parts are shipped as specified. The Exemptions, 7(a) and 7(c)-1 are being currently reviewed by the European Commission and the review will be completed before Jul. 21, 2019.

Alternate compliant parts are available with modified specification.

Please contact Riedon directly if you have any questions concerning this certification.

Greg Wood,  
Quality Manager