

23 May 2022

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 The Directive was repealed and replaced by the Directive 2011/65/EU of 8 June 2011 ("Recast" or "RoHS 2"), which became effective January 1, 2013.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⁺⁶) (0.1%)
- Polybrominated Biphenyl (PBB) (0.1%)
- Polybrominated Diphenyl Ether (PBDE) (0.1%)

Under the most recent directive, (EU) 2015/863, the following additional 4 chemicals were added in a 2015 amendment to RoHS 3, which took effect on July 22, 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, 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 thirty seven resistor products which are RoHS 3 Compliant with Exemption:

Riedon, Inc. 300 Cypress Avenue Alhambra CA 91801 Phone: (626) 284-9901 Fax: (626) 284-1704 www.riedon.com



Riedon Resistor Products: ASC-Series – Anti Sulphur Chip Resistor CHR-Series – Non Magnetic Chip Resistor CLR-Series – Thick Film Chip Resistor CLS-Series – Thick Film Chip Resistor FPS-Series – Precision Shunt Resistor HVC-Series – Thick Film SMD Resistor MG-Series – Metal Film Resistor NHR-Series – Power Resistor NHR-Series – Power SMD Resistor NPR-Series – Power SMD Resistor PCR-Series – Pulse Withstanding Chip Resistor PFC-Series – Thick Film Power SMD Resistor	Exemption (*) 7(c)-1 7(c)-1 7(c)-1 7(c)-1 7(a) 7(c)-1 7(c)-1 7(c)-1 7(c)-1 7(c)-1 7(c)-1 7(c)-1 7(c)-1 7(c)-1
PFS-Series – Power SMD Film Resistor PFU-Series – High Voltage High Power Resistor	7(a) & 7(c)-1 7(a) & 7(c)-1 7(a) & 7(c)-1
PF1260-Series – Power Film Resistor PF2200-Series – Power Film Resistor PF2470-Series – Power Film Resistor	7(a) & 7(c)-1 7(a) & 7(c)-1 7(a) & 7(c)-1
Riedon Ammeter Shunt and Fuse Block Products:	Exemption (*)
MKA - Ammeter Shunt with base MKB - Ammeter Shunt with base MKC - Ammeter Shunt with base RCS - Ammeter Shunt RS - Ammeter Shunt with base RSH - Ammeter Shunt RSI - Ammeter Shunt RSJ - Ammeter Shunt RSJ - Ammeter Shunt RSL - Ammeter Shunt RSN - Ammeter Shunt RSN - Ammeter Shunt with base RSW - Ammeter Shunt SWA - Ammeter Shunt SWA - Ammeter Shunt SWB - Ammeter Shunt	6(c) 6(c) 6(c) 6(c) 6(c) 6(c) 6(c) 6(c)
WB - Ammeter Shunt WB - Ammeter Shunt with base WO2 - Ammeter Shunt CFB - Fuse Block FB - Fuse Block NFB - Fuse Block	6(c) 6(c) 6(c) 6(c) 6(c)

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- (*) Exemption 6(c) "Copper alloy containing up to 4% lead by weight"
- (*) 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 have been reviewed by the European Commission. The review was completed as of March 11, 2021.

Alternate compliant parts are available with modified specification.

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

Scott Brooker, Scott Brooker, Quality Engineer

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