

6 February 2019

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 The Directive was repealed and replaced by the most current Directive 2011/65/EU of 8 June 2011 ("Recast" or "RoHS 2"), which became effective January 1, 2013.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⁺⁶) (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, 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 one, and only thirty one, 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:	Exemption (*)
ASC-Series – Anti Sulphur Chip Resistor	7(c)-1
CHR-Series – Non Magnetic Chip Resistor	7(c)-1
CLR-Series – Thick Film Chip Resistor	7(c)-1
CLS-Series – Thick Film Chip Resistor	7(c)-1
FPS-Series – Precision Shunt Resistor	7(a)
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
PFU-Series – High Voltage High Power Resistor	7(a) & 7(c)-1
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

Riedon Ammeter Shunt and Fuse Block Products: Exemption (*)

MKA	 Ammeter Shunt with base 	6(c) & 7(a)
MKB	 Ammeter Shunt with base 	6(c) & 7(a)
MKC	 Ammeter Shunt with base 	6(c) & 7(a)
RCS	Ammeter Shunt	6(c) & 7(a)
RS	 Ammeter Shunt with base 	6(c) & 7(a)
RSH	 Ammeter Shunt 	6(c) & 7(a)
RSI	- Ammeter Shunt	6(c) & 7(a)
RSJ	- Ammeter Shunt	6(c) & 7(a)
RSL	 Ammeter Shunt 	6(c) & 7(a)
RSN	 Ammeter Shunt with base 	6(c) & 7(a)
RSW	Ammeter Shunt	6(c) & 7(a)
SWA	Ammeter Shunt	6(c) & 7(a)
SWB	 Ammeter Shunt 	6(c) & 7(a)
SWE	Ammeter Shunt	6(c) & 7(a)
WB	 Ammeter Shunt 	6(c) & 7(a)
WO2	 Ammeter Shunt with base 	6(c) & 7(a)
CFB	- Fuse Block	6(c)
FB	- Fuse Block	6(c)
NFB	- Fuse Block	6(c)

- (*) 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"

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(*) 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.

Grég Wood,

Quality Manager