

Date: December 13, 2018  
 Subject: EU RoHS

CEL certifies, to its knowledge, that Renesas devices detailed below are compliant with the requirements of European Union (EU) Directive 2015/863/EU Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment.

Most device status is identified by a part number suffix. The suffixes -A and -AX indicate that the device is Pb-free. The -AZ suffix indicates that the device contains Pb that is exempt from the requirements of the RoHS directive. All devices with these suffixes meet the requirements of the EU RoHS directive.

Devices in the S01, S02, S03, 84A, 84B or 84C package do not have a part number suffix as described above, as these package types have been Pb-free since inception. All devices in these packages meet the requirements of the EU RoHS directive.

Restricted Substance	Concentration Limit	Devices in S01, S02, S03, 84A, 84B or 84C package	Devices with -A or -AX suffix	Devices with -AZ suffix
Lead	< 1000 PPM	Not Used	Not Used	Exempted
Mercury	< 1000 PPM	Not Used	Not Used	Not Used
Cadmium	< 100 PPM	Not Used	Not Used	Not Used
Hexavalent Chromium	< 1000 PPM	Not Used	Not Used	Not Used
PBB	< 1000 PPM	Not Used	Not Used	Not Used
PBDE	< 1000 PPM	Not Used	Not Used	Not Used
DEHP	< 1000 PPM	Not Used	Not Used	Not Used
BBP	< 1000 PPM	Not Used	Not Used	Not Used
DBP	< 1000 PPM	Not Used	Not Used	Not Used
DIBP	< 1000 PPM	Not Used	Not Used	Not Used

Additional Information:

- A suffix indicates outer terminal plating is SnBi (Bi 2% typical, 4% maximum)
- AX suffix indicates outer terminal plating is NiPdAu
- AZ suffix indicates outer terminal plating is SnBi or Au (product dependent). Applicable RoHS exemption is Pb in glass or high temperature solder

This statement is based on CEL's understanding of the EU Directives and knowledge of the materials that go into these components as of the date of disclosure of this information.

CEL relies on information provided by our suppliers and has not conducted chemical analysis or testing on devices.

If you should have any additional questions regarding our devices and compliance to current environmental standards, please contact your local representative.

Best regards,



Gail Wisniewski  
 Quality Manager

Important Information and Disclaimer: Information provided by CEL on its website or in other communications concerning the substance content of its products represents knowledge and belief as of the date that it is provided. CEL bases its knowledge and belief on information provided by third parties and makes no representation or warranty as to the accuracy of such information. CEL has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. CEL and CEL suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release. In no event shall CEL's liability arising out of such information exceed the total purchase price of the CEL part(s) at issue sold by CEL to customer on an annual basis. See CEL Terms and Conditions for additional clarification of warranties and liability.