

# Certificate for the RoHS Directive

## ▪ Product : All SK hynix products

SK hynix acknowledges that the RoHS Directive entitled “ Restriction of the use of certain Hazardous Substances (RoHS)”, effective on Mar. 2006 for RoHS1 (2002/95/EC), Jul. 2011 for RoHS2 (2011/65/EU) and Jun. 2015 for RoHS3 (2015/863/EU) SK hynix has prohibited the ten substances within electrical and electronic equipment. SK hynix guarantees that SK hynix's products are controlled under MCV of the RoHS substance and it is also able to comply to the contents of the specific changes of RoHS3.

### ❖ Prohibited Substances of RoHS1 and Compliance :

| Substance                              | RoHS MCV   |
|--|------------|
| Cadmium and its compounds              | < 100 ppm  |
| Mercury and its compounds              | < 1000 ppm |
| Lead and its compounds                 | < 1000 ppm |
| Hexavalent Chromium and its compounds  | < 1000 ppm |
| Polybrominated biphenyls (PBBs)        | < 1000 ppm |
| Polybrominated diphenyl ethers (PBDEs) | < 1000 ppm |
| Di-(2-ethylhexyl) phthalate (DEHP)     | < 1000 ppm |
| Dibutyl phthalate (DBP)                | < 1000 ppm |
| Benzyl butyl phthalate (BBP)           | < 1000 ppm |
| Di-isobutyl phthalate (DIBP)           | < 1000 ppm |

(MCV : Maximum Concentration Value)

Remarks) Please note that our module level product's parts do contain Lead which is exempt from RoHS Directive 2011/65/EU (see Article 4(1), Section 7(c)-I).

### - Exemption 7(c)-I :

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.

### ❖ Major change item of RoHS2

1. Extend the application category from 8 to 11 category.  
: Inserted Medical Machine, Monitoring & Control Machine and so on
2. CE Marking Execution from 2013 if applied and needed  
: In case of application, execute CE Mark and prepare technical document based on Draft 50581:2012
3. Delete Exemption Item from 2011 step by step  
: Delete exemption 1, 1(a) in 2011, 7(c-3) in 2013 and so on

- Date : 2018. 05. 11
- Name : Jinchun Kim
- Title : Director
- Signature :



- Company Seal :

